

# SEARCH REQUEST FORM

Requestor's Name: \_\_\_\_\_ Serial Number: \_\_\_\_\_  
Date: \_\_\_\_\_ Phone: \_\_\_\_\_ Art Unit: \_\_\_\_\_

## Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

## STAFF USE ONLY

Date completed: 06.12.03  
Searcher: Beverly 24999  
Terminal time: 26

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\_\_\_\_ IG  
☒ STN



09/761116

L1 FILE 'REGISTRY' ENTERED AT 16:08:38 ON 12 JUN 2003  
4786 SEA ABB=ON PLU=ON GCCTCTGGGGAG/SQSN

L2 FILE 'HCAPLUS' ENTERED AT 16:10:15 ON 12 JUN 2003  
L3 666 SEA ABB=ON PLU=ON L1  
L3 2 SEA ABB=ON PLU=ON L2 AND (B3 OR BETA3 OR BETA 3) (W) (AR  
OR ADRENERG?)  
L4 19 SEA ABB=ON PLU=ON L2 AND TRANSCRIPTION? REGULAT?  
L5 19 SEA ABB=ON PLU=ON L3 OR L4

L5 ANSWER 1 OF 19 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2003:409169 HCAPLUS  
TITLE: Genes that are differentially expressed during  
erythropoiesis and their diagnostic and  
therapeutic uses  
INVENTOR(S): Brissette, William H.; Neote, Kuldeep S.;  
Zagouras, Panayiotis; Zenke, Martin; Lemke,  
Britt; Hacker, Christine  
PATENT ASSIGNEE(S): Pfizer Products Inc., USA; Max-Delbruck-Centre  
for Molecular Medicine  
SOURCE: PCT Int. Appl., 285 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003038130	A2	20030508	WO 2002-XA34888	20021031
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
WO 2003038130	A2	20030508	WO 2002-US34888	20021031
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 2001-335048P P 20011031  
US 2001-335183P P 20011102  
WO 2002-US34888 A 20021031

AB The present invention provides mol. targets that regulate erythropoiesis. Groups of genes or their encoded gene products



comprise panels of the invention and may be used in therapeutic intervention, therapeutic agent screening, and in diagnostic methods for diseases and/or disorders of erythropoiesis. The panels were discovered using gene expression profiling of erythroid progenitors with Affymetrix HU6800 and HG-U95Av2 chips. Cells from an in vitro growth and differentiation system of SCF-Epo dependent human erythroid progenitors, E-cadherin+/CD36+ progenitors, cord blood, or CD34+ peripheral blood stem cells were analyzed. The HU6800 chip contains probes from 13,000 genes with a potential role in cell growth, proliferation, and differentiation and the HG-U95Av2 chip contains 12,000 full-length, functionally-characterized genes. [This abstr. record is one of two records for this document necessitated by the large no. of index entries required to fully index the document and publication system constraints.].

IT 389189-05-3, DNA (human clone lambda A3. )  
 391788-88-8, DNA (human clone Qc-9D3 )  
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)  
 (nucleotide sequence; genes that are differentially expressed during erythropoiesis and their diagnostic and therapeutic uses)

L5 ANSWER 2 OF 19 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2003:205655 HCAPLUS  
 DOCUMENT NUMBER: 138:199856  
 TITLE: Regulation of the pancreatic pro-endocrine gene neurogenin3. [Erratum to document cited in CA136:146041]  
 AUTHOR(S): Lee, Jane C.; Smith, Stuart B.; Watada, Hirotaka; Lin, Joseph; Scheel, David; Wang, Juehu; Mirmira, Raghavendra G.; German, Michael S.  
 CORPORATE SOURCE: Hormone Research Institute and the Department of Pediatrics, University of California, San Francisco, CA, 94143, USA  
 SOURCE: Diabetes (2001), 50(6), 1512  
 CODEN: DIAEAZ; ISSN: 0012-1797  
 PUBLISHER: American Diabetes Association  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB The correct spelling of Dr. Smith's name is Stuart B. Smith.  
 IT 390513-25-4, GenBank AF234829  
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)  
 (nucleotide sequence; regulation of pancreatic pro-endocrine neurogenin3 gene in human and mouse (Erratum))

L5 ANSWER 3 OF 19 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2003:187090 HCAPLUS  
 DOCUMENT NUMBER: 138:219712  
 TITLE: Differentially expressed gene expression profiles in human glomerular diseases  
 INVENTOR(S): Munger, William E.; Falk, Ronald; Sun, Hongwei; Sasai, Hitoshi; Waga, Iwao; Yamamoto, Jun  
 PATENT ASSIGNEE(S): Gene Logic, Inc., USA; University of North Carolina At Chapel Hill  
 SOURCE: PCT Int. Appl., 781 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent



09/761116

LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 9  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003016476	A2	20030227	WO 2002-XG25766	20020814
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
WO 2003016476	A2	20030227	WO 2002-US25766	20020814
WO 2003016476	A3	20030508		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.:

US 2001-311837P P 20010814  
WO 2002-US25766 A 20020814

AB The present invention is based on the elucidation of global changes in gene expression in peripheral blood leukocytes (PBL) of patients with glomerular diseases exhibiting different types of clin. and pathol. features of glomerular nephropathy as compared to normal PBL as well as the identification of individual genes that are differently expressed in PBL of patients with glomerular diseases. The genes and gene expression information may be used as markers for the diagnosis of disease subtype, such as IgA nephropathy, Minimal Change nephrotic syndrome, antineutrophil cytoplasmic antibody-assocd. glomerulonephritis (ANCA), focal segmental glomerulosclerosis (FSGS), and lupus nephritis. The genes may also be used as markers to evaluate the effects of a candidate drug or agent on tissues, including PBLs, particularly PBLs undergoing activation or PBLs from a patient with glomerular disease. Differential expression of genes between PBLs from patients with glomerular disease and normal PBL samples was detd. using the Affymetrix 42K human gene chip set. [This abstr. record is one of nine records for this document necessitated by the large no. of index entries required to fully index the document and publication system constraints.].

L5 ANSWER 4 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:696159 HCAPLUS

DOCUMENT NUMBER: 137:246071

TITLE: Gene expression profiles relating to normal and

Searcher : Shears 308-4994





09/761116

INVENTOR(S): osteoarthritic cartilage  
Liew, Choong-Chin; Marshall, Wayne E.; Zhang,  
Hongwei  
PATENT ASSIGNEE(S): Chondrogene Inc., Can.  
SOURCE: PCT Int. Appl., 777 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002070737	A2	20020912	WO 2002-CA247	20020228
WO 2002070737	C1	20021031		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,  
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,  
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ,  
LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,  
NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,  
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM,  
AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,  
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,  
SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,  
SN, TD, TG

PRIORITY APPLN. INFO.:

US 2001-271955P P 20010228  
US 2001-275017P P 20010312  
US 2001-305340P P 20010713

AB The invention provides gene expression profiles comprising one or more polynucleotide sequences that are expressed in chondrocytes from any of the following developmental and disease stages: fetus; normal adult, mild osteoarthritis, moderate osteoarthritis, marked osteoarthritis, and severe osteoarthritis. Complementary DNA libraries were constructed from human fetal, normal, mild osteoarthritic and severe osteoarthritic cartilage samples (13,398, 17,151, 12,651, and 14,222 expressed sequence tags (ESTs), resp.). The known and novel clones derived from these libraries were then used to construct human chondrocyte-specific microarrays to generate differential gene expression profiles useful as a diagnostic tools for detection of osteoarthritis. A total of 5807 expressed gene sequences are provided and matched to known gene sequences, other ESTs, or mitochondrial, ribosomal, vector, and cDNA/hypothetical protein sequences in the public databases. Arrays of the invention are useful as a gold std. for osteoarthritis diagnosis and for use to identify and monitor therapeutic efficacy of new drug targets.

IT 227594-62-9, DNA (human gene KvLQT1 plus gene KvLQT1)

258491-28-0 266660-95-1 267626-85-7, DNA

(human gene GLP plus flanks) 385252-57-3

392013-60-4, GenBank AC002400

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(nucleotide sequence; gene expression profiles relating to normal and osteoarthritic cartilage)

L5 ANSWER 5 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:611070 HCAPLUS

Correction of: 2002:158040

Searcher : Shears 308-4994



09/761116

DOCUMENT NUMBER: 137:120745  
 Correction of: 136:195361  
 TITLE: Stress-regulated genes of Arabidopsis thaliana and generation and uses of transgenic plants containing them  
 INVENTOR(S): Harper, Jeffrey F.; Kreps, Joel; Wang, Xun; Zhu, Tong  
 PATENT ASSIGNEE(S): The Scripps Research Institute, USA; Syngenta Participations A.-G.  
 SOURCE: PCT Int. Appl., 577 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002016655	A2	20020228	WO 2001-US26685	20010824
WO 2002016655	C2	20030109		
WO 2002016655	A3	20030313		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2001086811	A5	20020304	AU 2001-86811	20010824
US 2002160378	A1	20021031	US 2001-938842	20010824
EP 1313867	A2	20030528	EP 2001-966283	20010824
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:			US 2000-227866P	P 20000824
			US 2001-264647P	P 20010126
			US 2001-300111P	P 20010622
			WO 2001-US26685	W 20010824
AB The present invention relates to clusters of plant genes that are regulated in response to one or more stress conditions, including cold stress, osmotic stress, and saline stress. The present invention also relates to isolated plant stress-regulated genes, including portions thereof comprising a coding sequence or a regulatory element, and to consensus sequences comprising a plant stress-regulated regulatory element. A GeneChip.tautm. Arabidopsis Genome Array was used to identify clusters of genes that were coordinately induced in response to various stress conditions, using probes synthesized in situ designed to measure temporal and spatial gene expression of .apprx.8700 genes in greater than 100 EST clusters. Of the .apprx.8700 nucleotides sequences represented on the array, 2862 nucleotide sequences showed at least a 2-fold change in expression in at least one sample relative to no-treatment controls in A. thaliana. In addn., the invention relates to a recombinant polynucleotide, which includes a plant stress-regulated gene, or functional portion thereof, operatively linked to a				



heterologous nucleotide sequence. The invention further relates to a transgenic plant, which contains a plant stress-regulated gene or functional portion thereof that was introduced into a progenitor cell of the plant. In addn., the invention relates to methods of using a plant stress-regulated gene to confer upon a plant a selective advantage to a stress condition. The invention also relates to a method of identifying an agent that modulates the activity of a plant stress-regulated regulatory element.

L5 ANSWER 6 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:505738 HCAPLUS

DOCUMENT NUMBER: 137:258374

TITLE: The p66Shc longevity gene is silenced through epigenetic modifications of an alternative promoter

AUTHOR(S): Ventura, Andrea; Luzi, Lucilla; Pacini, Sonia; Baldari, Cosima T.; Pelicci, Pier Giuseppe

CORPORATE SOURCE: Department of Experimental Oncology, European Institute of Oncology, Milan, 20141, Italy

SOURCE: Journal of Biological Chemistry (2002), 277(25), 22370-22376

CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER: American Society for Biochemistry and Molecular Biology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The mammal Shc locus encodes three overlapping isoforms (46, 52, and 66 kDa) that differ in the length of their N-terminal regions. P46/p52Shc and p66Shc have been implicated, resp., in the cytoplasmic propagation of growth and apoptogenic signals. Levels of p66Shc expression correlate with life span duration in mice. P46Shc and p52Shc are ubiquitously expressed, whereas p66Shc is expressed in a cell lineage-specific fashion. However, the mechanisms underlying the regulation of Shc protein expression are unknown. Here we report the identification of two alternative promoters, driving the transcription of two mRNAs coding for p46/p52Shc and p66Shc. We show that treatment with an inhibitor of histone deacetylases or with a demethylating agent results in induction of p66Shc expression in cells that normally do not express this isoform but leaves the levels of the two other isoforms unchanged. Moreover, anal. of the methylation pattern of the p66Shc promoter in a panel of primary and immortalized human cells showed inverse correlation between p66Shc expression and methylation d. of its promoter. These results identify histone deacetylation and cytosine methylation as the mechanisms underlying p66Shc silencing in nonexpressing cells.

IT 434273-42-4, GenBank AF455140

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(nucleotide sequence; p66Shc longevity gene is silenced through epigenetic modifications of an alternative promoter)

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:483007 HCAPLUS

DOCUMENT NUMBER: 137:42660



09/761116

TITLE: Protein, gene and cDNA sequence of human and mouse Box-dependent Myc-interacting protein (Bin1) and uses in cancer diagnosis  
 INVENTOR(S): Prendergast, George C.; Sakamuro, Daitoku  
 PATENT ASSIGNEE(S): The Wistar Institute of Anatomy and Biology, USA  
 SOURCE: U.S., 64 pp., Cont.-in-part of U. S. 6,048,702.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 5  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6410238	B1	20020625	US 1999-445247	19991203
US 6048702	A	20000411	US 1997-870126	19970606
WO 9855151	A1	19981210	WO 1998-US11647	19980604

W: AU, CA, JP, US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.:  
 US 1997-870126 A2 19970606  
 WO 1998-US11647 W 19980604  
 US 1995-435454 A2 19950505  
 US 1996-652972 A2 19960524

AB The present invention provides human Bin1 genomic sequences and proteins encoded thereby. Also provided are compns. and methods utilizing these sequences and proteins in the diagnosis and treatment of cancers and hyperplastic disease states. Further provided are oligonucleotides derived from sequences encoding Bin1, as well as compns. and methods utilizing same for diagnostic and therapeutic purposes. The invention also relates to protein and cDNA sequence of human and mouse Box-dependent Myc-interacting protein (Bin1). The invention demonstrated that the assocn. between GST-Bin1 fusion protein and Myc was both specific and physiol. relevant, since it depended upon the presence of the Myc boxes. A set of deletion mutant of Bin1 was constructed to study the inhibition of Bin1 on oncogenic effect of transcription factor E1A and mutant p53 protein. The domains required to inhibit E1A and mutant p53 were overlapping, but distinct, and in each case different from those required to block Myc, implying that Bin1 could inhibit Myc-independent transformation through two mechanisms that required U1 or the SH3 domain, resp. In normal cells where growth is regulated, Bin1 is located primarily in the nucleoplasm but a fraction of the protein is located in a subnuclear punctate compartment(s). However, in tumor cells, where growth is deregulated, the punctate localization predominates, suggesting that Bin1 localization is assocd. with growth regulatory capability.

IT 438516-84-8

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(nucleotide sequence; protein, gene and cDNA sequence of human and mouse Box-dependent Myc-interacting protein (Bin1) and uses in cancer diagnosis)

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT





09/761116

L5 ANSWER 8 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:501197 HCAPLUS  
DOCUMENT NUMBER: 138:181862  
TITLE: Regulation of the pancreatic pro-endocrine gene  
Neurogenin3. [Erratum to document cited in  
CA136:146041]  
AUTHOR(S): Lee, Jane C.; Smith, Stewart B.; Watada,  
Hirotaka; Lin, Joseph; Scheel, David; Wang,  
Juehu; Mirmira, Reghavendra G.; German, Michael  
S.  
CORPORATE SOURCE: Hormone Research Institute and the Department  
of Pediatrics, University of California, San  
Francisco, CA, 94143, USA  
SOURCE: Diabetes (2001), 50(7), 1675  
CODEN: DIAEAZ; ISSN: 0012-1797  
PUBLISHER: American Diabetes Association  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB The authors would like to acknowledge receipt of the National  
Institutes of Health Grant DK07161 (to J.C.L.).  
IT **390513-25-4**, GenBank AF234829  
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL  
(Biological study)  
(regulation of pancreatic pro-endocrine neurogenin3 gene in human  
and mouse (Erratum))

L5 ANSWER 9 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:490372 HCAPLUS  
DOCUMENT NUMBER: 136:146041  
TITLE: Regulation of the pancreatic pro-endocrine gene  
neurogenin3  
AUTHOR(S): Lee, Jane C.; Smith, Stewart B.; Watada,  
Hirotaka; Lin, Joseph; Scheel, David; Wang,  
Juehu; Mirmira, Raghavendra G.; German, Michael  
S.  
CORPORATE SOURCE: Hormone Research Institute and the Department of  
Pediatrics, University of California, San  
Francisco, CA, 94143, USA  
SOURCE: Diabetes (2001), 50(5), 928-936  
CODEN: DIAEAZ; ISSN: 0012-1797  
PUBLISHER: American Diabetes Association  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB Neurogenin3 (ngn3), a basic helix-loop-helix (bHLH) transcription  
factor, functions as a pro-endocrine factor in the developing  
pancreas: by itself, it is sufficient to force undifferentiated  
pancreatic epithelial cells to become islet cells. Because ngn3  
expression directs which precursor cells will differentiate into islet  
cells, the signals that regulate ngn3 expression control islet cell  
formation. To investigate the factors that control ngn3 gene  
expression, we mapped the human and mouse ngn3 promoters and  
delineated transcriptionally active sequences within the human  
promoter. Surprisingly, the human ngn3 promoter drives  
transcription in all cell lines tested, including fibroblast cell  
lines. In contrast, in transgenic animals the promoter drives  
expression specifically in regions of ngn3 expression in the  
developing pancreas and gut; and the addition of distal sequences  
greatly enhances transgene expression. Within the distal enhancer,



binding sites for several pancreatic transcription factors, including hepatocyte nuclear factor (HNF)-1 and HNF-3, form a tight cluster. HES1, an inhibitory bHLH factor activated by Notch signaling, binds to the proximal promoter and specifically blocks promoter activity. Together with previous genetic data, these results suggest a model in which the *ngn3* gene is activated by the coordinated activities of several pancreatic transcription factors and inhibited by Notch signaling through HES1.

IT 390513-25-4, GenBank AF234829

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(nucleotide sequence; regulation of pancreatic pro-endocrine neurogenin3 gene in human and mouse)

REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:322774 HCAPLUS

DOCUMENT NUMBER: 136:49212

TITLE: Expression of the human **.beta.3-adrenergic** receptor gene in SK-N-MC cells is under the control of a distal enhancer

AUTHOR(S): Susulic, Vedrana S.; LaVallette, Lucille; Duzic, Emir; Chen, Liang; Shuey, David; Karathanasis, Sotirios K.; Steiner, Kurt E.

CORPORATE SOURCE: Metabolic Diseases Department, Wyeth-Ayerst Laboratories, Inc., Princeton, NJ, 08543, USA

SOURCE: Endocrinology (2001), 142(5), 1935-1949

CODEN: ENDOAO; ISSN: 0013-7227

PUBLISHER: Endocrine Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Mechanisms of **transcriptional regulation** of the human **.beta.3-adrenergic** receptor were studied using SK-N-MC cells, a human neuroblastoma cell line that expresses **.beta.3-** and **.beta.1-adrenergic** receptors endogenously. Deletions spanning different portions of a 7-kb 5'-flanking region of the human **.beta.3-adrenergic** receptor gene were linked to a luciferase reporter and transfected in SK-N-MC, CV-1, and HeLa cells. Maximal luciferase activity was obsd. when a 200-bp region located between -6.5 and -6.3 kb from the translation start site was present. This region functioned only in SK-N-MC cells. Electrophoretic mobility shift assays of nuclear exts. from SK-N-MC, CV-1, and HeLa cells using double stranded oligonucleotides spanning different portions of the 200-bp region as probes and transient transfection studies revealed the existence of three cis-acting regulatory elements: -6.468 kb-AGGTGGACT- -6.458 kb, -6.448 kb-GCCTCTCTGGGGAGCAGCTTCTCC-6.428 kb, and -6.405 kb-20 repeats of CCTT-6.385 kb. These elements act together to achieve full transcriptional activity. Mutational anal., antibody supershift, and electrophoretic mobility shift assay competition expts. indicated that element A binds the transcription factor Sp1, element B binds protein(s) present only in nuclear exts. from SK-N-MC cells and brown adipose tissue, and element C binds protein(s) present in both SK-N-MC and HeLa cells. In addn., element C exhibits characteristics of an S1 nuclease-hypersensitive



site. These data indicate that cell-specific pos. cis-regulatory elements located 6.5 kb upstream from the translation start site may play an important role in **transcriptional regulation** of the human **.beta.3-adrenergic** receptor. These data also suggest that brown adipose tissue-specific transcription factor(s) may be involved in the tissue-specific expression of the **.beta.3-adrenergic** receptor gene.

IT 336679-97-1, GenBank AF359565

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(expression of the human **.beta.3-adrenergic** receptor gene in SK-N-MC cells is under the control of a distal enhancer)

REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 11 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:824895 HCAPLUS

DOCUMENT NUMBER: 135:132953

TITLE: The gene encoding rat 3-phosphoglycerate dehydrogenase

AUTHOR(S): Robbi, Mariette; Achouri, Younes; Szpirer, Claude; Van Schaftingen, Emile

CORPORATE SOURCE: Laboratoire de Chimie Physiologique, Christian de Duve Institute of Cellular Pathology and Universite Catholique de Louvain, Brussels, B-1200, Belg.

SOURCE: Mammalian Genome (2000), 11(11), 1034-1036  
CODEN: MAMGEC; ISSN: 0938-8990

PUBLISHER: Springer-Verlag New York Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The enzyme 3-phosphoglycerate dehydrogenase (PHGDH) catalyzes the first step in serine biosynthesis and is present in prokaryotes and eukaryotes. There is some evidence for **transcriptional regulation** of the gene for PHGDH in rat liver and in proliferating cells. The authors have cloned and sequenced genomic DNA which encodes the rat 3-phosphoglycerate dehydrogenase gene (Phgdh) and about 5 kb of upstream DNA. Thirteen exons were identified, including an exon 1' which is only expressed in testis due to RNA splicing and does not affect the amino acid sequence. A no. of transcription start sites were identified that were not tissue-specific or suggestive of more than one promoter. The rat gene Phgdh was mapped to 2q34 using mouse x rat cell hybrids and FISH (fluorescence in situ hybridization). The 5'-flanking region was analyzed for promoter activity by transfecting FTO2B hepatoma cells with rat gene Phgdh DNA fragments fused to a luciferase reporter gene. A region with promoter activity was identified between nucleotides -1560 and -765.

IT 263952-68-7, GenBank AJ271975

RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence)

(nucleotide sequence; of genomic DNA encoding rat 3-phosphoglycerate dehydrogenase)

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE



09/761116

FOR THIS RECORD. ALL CITATIONS AVAILABLE  
IN THE RE FORMAT

L5 ANSWER 12 OF 19 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2000:564473 HCAPLUS  
DOCUMENT NUMBER: 134:66939  
TITLE: Alternative exon usage of rat septins  
AUTHOR(S): Jackisch, Bjorn-Oliver; Hausser, Heinz;  
Schaefer, Liliana; Kappler, Joachim; Muller,  
Hans Werner; Kresse, Hans  
CORPORATE SOURCE: Department of Internal Medicine, Institute of  
Physiological Chemistry and Pathobiochemistry,  
University of Munster, Munster, D-48149, Germany  
SOURCE: Biochemical and Biophysical Research  
Communications (2000), 275(1), 180-188  
CODEN: BBRCA9; ISSN: 0006-291X  
PUBLISHER: Academic Press  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB Septins represent a family of phylogenetically conserved proteins  
required for cytokinesis. Their presence in pre- and postsynaptic  
neuronal membranes suggests a general function as scaffolds for  
membrane reorganization. The **transcriptional**  
**regulation** of all septins examd. so far is complex,  
resulting in alternatively spliced variants. We focus here on the  
rat homolog of the gene for the human septin MSF, a truncated form  
of which, designated esepitin, had been described previously. It  
will be shown here that there is an alternative usage of the first  
exon by two forms, named exon r1a and r1b, resp. Exon r1a, but not  
exon r1b, contains a part of the coding sequence while the start of  
translation for the remaining coding sequence resides in the second  
exon. The complete genomic organization was resolved and data on  
the temporal and spatial expression of this septins are presented.  
(c) 2000 Academic Press.  
IT 244895-16-7, GenBank AF170253 244895-31-6, GenBank  
AF173899  
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL  
(Biological study)  
(nucleotide sequence; alternative exon usage of rat septins)  
REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE  
FOR THIS RECORD. ALL CITATIONS AVAILABLE  
IN THE RE FORMAT

L5 ANSWER 13 OF 19 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2000:535280 HCAPLUS  
DOCUMENT NUMBER: 133:145940  
TITLE: **Transcriptional regulation**  
of the human .beta.3-  
**adrenergic** receptor gene  
INVENTOR(S): Susulic, Vedrana S.; Duzic, Emir  
PATENT ASSIGNEE(S): American Home Products Corporation, USA  
SOURCE: PCT Int. Appl., '88 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

Searcher : Shears 308-4994





09/761116

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000044901	A1	20000803	WO 2000-US2632	20000201
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6197580	B1	20010306	US 1999-243335	19990201
CA 2360064	AA	20000803	CA 2000-2360064	20000201
EP 1147191	A1	20011024	EP 2000-905905	20000201
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002535005	T2	20021022	JP 2000-596143	20000201
US 2002102552	A1	20020801	US 2001-761116	20010116
PRIORITY APPLN. INFO.:			US 1999-243335	A 19990201
			WO 2000-US2632	W 20000201
AB	<p>The present invention relates to a pos. cis-regulatory (enhancer) element and trans-acting (activating) factor for the <b>transcriptional regulation</b> of human <b>.beta.3-adrenergic</b> receptor (<b>.beta.3-AR</b>) gene. A region localized between -6.50 and -6.30 kb of the proximal promoter contg. three segments that act synergistically to achieve full transcriptional activity is identified as the regulatory elements responsible for tissue-specific <b>transcriptional regulation</b> of human <b>.beta.3-AR</b>. One segment, termed segment A, contains an Spl binding site. Another of the sequences, termed segment B, is a binding site for a trans-acting factor present in cells that constitutively express <b>.beta.3-AR</b>. The third segment, C, is an S1 nuclease-sensitive site having CCTT repeats. In a specific embodiment, the trans-acting factor is expressed in neuroblastoma (SK-N-MC) and brown adipose tissue cells, but little or not at all in CV-1, HeLa, or white adipose tissue cells. Recombinant vectors under control of this <b>transcriptional regulation</b> region, particularly contg. the B and C segments, provide a substrate for high throughput assays, such as reporter gene assays, to identify compds. that can increase the level of expression of <b>.beta.3-AR</b>. The B segment nucleic acids also provide for isolation and cloning of the trans-acting factor. Mechanisms of <b>transcriptional regulation</b> and identification of other adjacent proteins involved in the regulation of the h.<b>.beta.3-AR</b> gene expression are provided.</p>			
IT	<p><b>287496-21-3</b>            RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)            (S1 nuclease sensitive site of h.<b>.beta.3-AR</b> gene; <b>transcriptional regulation</b> of human <b>.beta.3-adrenergic</b> receptor gene)</p>			
IT	<p><b>287496-35-9</b></p>			



09/761116

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(nucleotide sequence; **transcriptional regulation** of human **.beta.3-adrenergic** receptor gene)

IT 287496-84-8 287496-89-3 287496-90-6  
287496-91-7

RL: PRP (Properties)  
(unclaimed nucleotide sequence; **transcriptional regulation** of the human **.beta.3-adrenergic** receptor gene)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 14 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:405968 HCAPLUS

DOCUMENT NUMBER: 133:318161

TITLE: A 66-Base-Pair Enhancer Module Activates the Expression of a Distinct Isoform of UDP-glucuronosyltransferase Family 1 (UGT1A2) in Primary Hepatocytes

AUTHOR(S): Emi, Yoshikazu; Ohnishi, Aki; Kajimoto, Takahiro; Ikushiro, Shin-ichi; Iyanagi, Takashi  
CORPORATE SOURCE: Department of Life Science, Himeji Institute of Technology, Hyogo, 678-1297, Japan

SOURCE: Archives of Biochemistry and Biophysics (2000), 378(2), 384-392  
CODEN: ABBIA4; ISSN: 0003-9861

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB UGT1A2, an isoform of the UDP-glucuronosyltransferase family 1 (UGT1), is not expressed in the rat liver, but its expression was highly induced in primary cultures of rat hepatocytes. In primary hepatocytes that had been cultured for 70 h, the amt. of UGT1A2 mRNA was 100 times higher than that in the rat liver. Deletion anal. of a 4.8-kb promoter region of the UGT1A2 gene revealed that a 66-nucleotide region between -307 and -242 upstream of the transcription start site was required for induction of UGT1A2 expression. The 66-nucleotide region acted on a heterologous promoter in a manner independent of its position and orientation in reporter constructs. Gel mobility shift assay showed that a specific binding protein to this region appeared in the nuclei of cultured hepatocytes, but was not present in the rat liver. DNase I protection anal. revealed the existence of a CTGGCAC core sequence between -274 and -268 of the UGT1A2 promoter. Methylation interference assay showed that the guanine residues at -294 and -287 on the upper strand and the guanine residue at -267 on the lower strand as well as the core sequence were required for the DNA-protein interaction. These results suggest that the 66-nucleotide region, which was designated culture-assocd. expression responsive enhancer module (CEREM), interacts with a specific nuclear protein and enhances the expression of UGT1A2 in cultured hepatocytes. (c) 2000 Academic Press.

IT 261334-62-7, GenBank AB025923

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL



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(Biological study)

(nucleotide sequence; 66-Base-Pair Enhancer Module Activates  
Expression of Distinct Isoform of UDP-glucuronosyltransferase  
Family 1 (UGT1A2) in Primary Hepatocytes)

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE  
FOR THIS RECORD. ALL CITATIONS AVAILABLE  
IN THE RE FORMAT

L5 ANSWER 15 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:134182 HCAPLUS

DOCUMENT NUMBER: 132:304235

TITLE: Characterization of the c-specific promoter of  
the gene encoding human endothelin-converting  
enzyme-1 (ECE-1)

AUTHOR(S): Funke-Kaiser, H.; Bolbrinker, J.; Theis, S.;  
Lemmer, J.; Richter, C.-M.; Paul, M.;  
Orzechowski, H.-D.

CORPORATE SOURCE: Institute of Clinical Pharmacology and  
Toxicology, Benjamin Franklin Medical Center,  
Freie Universitat Berlin, Berlin, 12200, Germany

SOURCE: FEBS Letters (2000), 466(2,3), 310-316

CODEN: FEBLAL; ISSN: 0014-5793

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Human ECE-1 is expressed in four isoforms with different tissue  
distribution and its mRNA and protein levels are altered under  
certain pathophysiol. conditions. To investigate the  
**transcriptional regulation** of ECE-1, we studied  
the regulatory region of ECE-1c, the major ECE-1 isoform. A genomic  
clone comprising the complete human ECE-1 gene including the  
putative ECE-1c-specific promoter was obtained. Up to 968 bp  
upstream of the putative c-specific translation initiation start  
codon and several serial deletion mutants were subcloned into a  
reporter vector and transfected into endothelial (BAEC, EA.hy926,  
ECV304) and epithelial (MDA MB435S, MCF7) cells, showing very strong  
promoter activity in comparison to the SV40 promoter and to the  
previously described ECE-1a and 1b promoters. Transfection of  
serial deletion mutants indicated two pos. regulatory regions within  
the promoter (-142/-240 and -240/490) likely involved in binding  
GATA and ETS transcription factors. RNase protection assay (RPA)  
and 5'-RACE revealed multiple transcriptional start sites located at  
about -110, -140 and -350 bp. Site-directed mutagenesis  
demonstrated a crucial role for the E2F cis-element for basal ECE-1c  
promoter activity. Addnl., we found a correlation between  
isoform-specific ECE-1 mRNA levels and corresponding ECE-1a, 1b, 1c  
promoter activities.

IT 217120-85-9, GenBank AL031728

RL: BPR (Biological process); BSU (Biological study, unclassified);  
PRP (Properties); BIOL (Biological study); PROC (Process)

(nucleotide sequence; characterization of c-specific promoter of  
the gene encoding human endothelin-converting enzyme-1)

REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE  
FOR THIS RECORD. ALL CITATIONS AVAILABLE  
IN THE RE FORMAT

L5 ANSWER 16 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:784257 HCAPLUS



09/761116

DOCUMENT NUMBER: 132:31783  
 TITLE: Sequence of human homologue of unc-53 protein of  
 C. elegans with therapeutic applications  
 INVENTOR(S): Luyten, Walter Herman Maria Louis; De  
 Raeymaeker, Marc Carl; Geysen, Johan Jozef  
 Gustave Hendrik; Bogaert, Thierry A. O. E.;  
 Maerten, Luc Jacques Simon; Verhasselt, Peter;  
 Van de Craen, Marc  
 PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.  
 SOURCE: PCT Int. Appl., 147 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9963080	A1	19991209	WO 1999-EP3848	19990602
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2330179	AA	19991209	CA 1999-2330179	19990602
AU 9943735	A1	19991220	AU 1999-43735	19990602
EP 1092019	A1	20010418	EP 1999-926511	19990602
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRIORITY APPLN. INFO.:			GB 1998-11962	A 19980603
			WO 1999-EP3848	W 19990602
AB There is disclosed human homologues of the UNC-53 protein of C. elegans and cDNA sequences coding for said homologues or functional equiv. thereof. The invention also relates to processes for identifying compds. which control cell behavior, compds. identified and pharmaceutical compns. contg. them in addn. to processes and assays for identifying disease states in which said gene or protein is dysfunctional. The UNC-53 protein is differentially expressed in different parts of the brain. Splice variants of UNC-53 protein were found also. A non-silent single nucleotide polymorphism in Hunc-53/1 in position 1232 and in Hs-unc-53/2 in position 929 was found. This indicates that variations exist in human unc-53s which-in some cases- may be relevant to the proper functioning of the UNC-53 protein and hence in disease. Alternative 5'-start exons were also found. This gene Hs-UNC-53/2 is located on human chromosome 11. The hs-unc-53/3 gene was mapped on chromosome 12q21.1. F-actin reorganization and microtubule binding of Hs-UNC-53/3 was reported also. Compd. screens which affect the function of human UNC-53 protein were measured by lamellipodia formation. Transgenic systems for expression of this protein are reported to alter cell migration by creating a mutation in the UNC-53 protein. Methods as described above and manuf. of a medicament for promoting neuronal regeneration, revascularization, wound healing, or treatment of chronic neurodegenerative diseases or				





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acute traumatic injuries or fibrotic disease or autoimmune diseases such as rheumatoid arthritis and sclerosis. Methods to screen for other proteins involved in signal transduction are provided. Antisense RNA and DNA are also given.

IT 252323-74-3

RL: PRP (Properties)

(unclaimed sequence; sequence of human homolog of unc-53 protein of *C. elegans* with therapeutic applications)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 17 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:800726 HCAPLUS

DOCUMENT NUMBER: 128:124353

TITLE: Structural analysis of the human BIN1 gene.

Evidence for tissue-specific  
**transcriptional regulation** and  
alternate RNA splicing

AUTHOR(S): Wechsler-Reya, Robert; Sakamuro, Daitoku; Zhang, Jing; Duhadaway, James; Prendergast, George C.

CORPORATE SOURCE: The Wistar Institute, Philadelphia, PA, 19104, USA

SOURCE: Journal of Biological Chemistry (1997), 272(50), 31453-31458

CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER: American Society for Biochemistry and Molecular Biology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB BIN1 is a putative tumor suppressor that was identified through its interaction with the MYC oncoprotein. To begin to identify elements of BIN1 whose alteration may contribute to malignancy, we cloned and characterized the human BIN1 gene and promoter. Nineteen exons were identified in a region of >54 kilobases, six of which were alternately spliced in a cell type-specific manner. One alternately spliced exon encodes part of the MYC-binding domain, suggesting that splicing controls the MYC-binding capacity of BIN1 polypeptides. Four other alternately spliced exons encode amphiphysin-related sequences that were included in brain-specific BIN1 species, also termed amphiphysin isoforms or amphiphysin II. The 5'-flanking region of BIN1 is GC-rich and lacks a TATA box but directs transcriptional initiation from a single site. A .apprx.0.9-kilobase fragment from this region was sufficient for basal transcription and transactivation by MyoD, which may account for the high levels of BIN1 obsd. in skeletal muscle. This study lays the foundation for genetic and epigenetic investigations into the role of BIN1 in normal and neo-plastic cell regulation.

IT 202053-19-8

RL: PRP (Properties)

(nucleotide sequence; structural anal. of the human BIN1 gene: evidence for tissue-specific **transcriptional regulation** and alternate RNA splicing)

L5 ANSWER 18 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:429941 HCAPLUS

DOCUMENT NUMBER: 125:134562

TITLE: Characterization of msim, a murine homolog of



AUTHOR(S): the Drosophila sim transcription factor  
 Moffett, Peter; Dayo, Mabel; Reece, Mark;  
 CORPORATE SOURCE: McCormick, Mary Kay; Pelletier, Jerry  
 Dep. of Biochemistry and McGill Cancer Center,  
 McGill Univ., Montreal, QC, H3G 1Y6, Can.  
 SOURCE: Genomics (1996), 35(1), 144-155  
 CODEN: GNMCEP; ISSN: 0888-7543  
 PUBLISHER: Academic  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB Mutations in the Drosophila single-minded (sim) gene result in loss of precursor cells that give rise to midline cells of the embryonic central nervous system. During the course of an exon-trapping strategy aimed at identifying transcripts that contribute to the etiol. and pathophysiol. of Down syndrome, we identified a human exon from the Down syndrome crit. region showing significant homol. to the Drosophila sim gene. Using a cross-hybridization approach, we have isolated a murine homolog of the Drosophila sim gene, which we designated msim. Nucleotide and predicted amino acid sequence analyses of msim cDNA clones indicate that this gene encodes a member of the basic-helix-loop-helix class of transcription factors. The murine and Drosophila proteins share 88% residues within the basic-helix-loop-helix domain, with an overall homol. of 92%. In addn., the N-terminal domain of MSIM contains two PAS dimerization motifs also featured in the Drosophila sim gene product, as well as a small no. of other transcription factors. Northern blot anal. of adult murine tissues revealed that the msim gene produces a single mRNA species of .apprx.4 kb expressed in a small no. of tissues, with the highest levels in the kidneys and lower levels present in skeletal muscle, lung, testis, brain, and heart. In situ hybridization expts. demonstrate that msim is also expressed in early fetal development in the central nervous system and in cartilage primordia. The characteristics of the msim gene are consistent with its putative function as a **transcriptional regulator**.

IT 177643-91-3, GenBank U42554  
 RL: BOC (Biological occurrence); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
 (nucleotide sequence; and mapping of mouse gene msim, the human homolog of which maps to the Down syndrome crit. region)

L5 ANSWER 19 OF 19 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1996:152631 HCAPLUS  
 DOCUMENT NUMBER: 124:256565  
 TITLE: Expression patterns of two murine homologs of Drosophila single-minded suggest possible roles in embryonic patterning and in the pathogenesis of Down syndrome

AUTHOR(S): Fan, Chen-Ming; Kuwana, Ellen; Bulfone, Alessandro; Fletcher, Colin F.; Copeland, Neal G.; Jenkins, Nancy A.; Crews, Stephen; Martinez, Salvador; Puelles, Luis; et al.

CORPORATE SOURCE: Howard Hughes Med. Inst., Univ. California, San Francisco, CA, 94143-0452, USA

SOURCE: Molecular and Cellular Neuroscience (1996), 7(1), 1-16  
 CODEN: MOCNED; ISSN: 1044-7431



09/761116

PUBLISHER: Academic  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB The single-minded (sim) gene encodes a **transcriptional regulator** that functions as a key determinant of central nervous system (CNS) midline development in *Drosophila*. The authors report here the identification of two murine homologs of sim, Sim1 and Sim2, whose products show a high degree of sequence conservation with *Drosophila* SIM in their amino-terminal halves, with each contg. a basic helix-loop-helix domain as well as a PAS domain. Sim1 maps to the proximal region of mouse chromosome 10, whereas Sim2 maps to a portion of the distal end of chromosome 16 that is syntenic to the Down syndrome crit. region of human chromosome 21. Recent exon-trapping studies have identified in the crit. region several exons of a human sim homolog which appears to be the homolog of murine Sim2; this has led to the hypothesis that increased dosage of this sim homolog in cases of trisomy 21 might be a causal factor in the pathogenesis of Down syndrome. The authors have examd. the expression patterns of the Sim genes during embryogenesis. Both genes are expressed in dynamic and selective fashion in specific neuromeric compartments of the developing forebrain, and the expression pattern of Sim2 provides evidence for early regionalization of the diencephalon prior to any overt morphol. differentiation in this region. Outside the CNS, Sim1 is expressed in mesodermal and endodermal tissues, including developing somites, mesonephric duct, and foregut. Sim2 is expressed in facial and trunk cartilage, as well as trunk muscles. Both murine Sim genes are also expressed in the developing kidney. The data suggest that the Sim genes play roles in directing the regionalization of tissues where they are expressed. Moreover, the expression pattern documented for Sim2 may provide insights into its potential roles in Down syndrome.

IT 174098-94-3, GenBank U40576

RL: PRP (Properties)

(nucleotide sequence; developmental expression, chromosomal localization, and cDNA sequence of Sim1 and Sim2 genes of mouse)

E1 THROUGH E27 ASSIGNED

FILE 'REGISTRY' ENTERED AT 16:13:28 ON 12 JUN 2003

L6 27 SEA FILE=REGISTRY ABB=ON PLU=ON (390513-25-4/BI OR  
174098-94-3/BI OR 177643-91-3/BI OR 202053-19-8/BI OR  
217120-85-9/BI OR 227594-62-9/BI OR 244895-16-7/BI OR  
244895-31-6/BI OR 252323-74-3/BI OR 258491-28-0/BI OR  
261334-62-7/BI OR 263952-68-7/BI OR 266660-95-1/BI OR  
267626-85-7/BI OR 287496-21-3/BI OR 287496-35-9/BI OR  
287496-84-8/BI OR 287496-89-3/BI OR 287496-90-6/BI OR  
287496-91-7/BI OR 336679-97-1/BI OR 385252-57-3/BI OR  
389189-05-3/BI OR 391788-88-8/BI OR 392013-60-4/BI OR  
434273-42-4/BI OR 438516-84-8/BI)

=> s 16 and 11

L7 27 L6 AND L1

L7 ANSWER 1 OF 27 REGISTRY COPYRIGHT 2003 ACS

RN 438516-84-8 REGISTRY

CN DNA (human gene Bin1 exon 7-12A plus flanks) (9CI) (CA INDEX NAME)

Searcher : Shears 308-4994



09/761116

OTHER NAMES:

CN 11: PN: US6410238 SEQID: 11 claimed DNA  
SQL 8051  
MF Unspecified  
CI MAN

REFERENCE 1: 137:42660

L7 ANSWER 2 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN 434273-42-4 REGISTRY  
CN DNA (mouse strain 129/SvJ Src homolog 2 domain-containing  
transforming protein 1 isoform p66 gene plus Src homolog 2  
domain-containing transforming protein 1 isoform p52 gene) (9CI)  
(CA INDEX NAME)

OTHER NAMES:

CN GenBank AF455140  
SQL 5178  
MF Unspecified  
CI MAN

REFERENCE 1: 137:258374

L7 ANSWER 3 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN 392013-60-4 REGISTRY  
CN GenBank AC002400 (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3: PN: WO03008647 TABLE: 13b unclaimed DNA  
CN 507: PN: WO02070737 FIGURE: 6 unclaimed DNA  
SQL 138839  
MF Unspecified  
CI MAN

REFERENCE 1: 138:148639

REFERENCE 2: 137:246071

L7 ANSWER 4 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN 391788-88-8 REGISTRY  
CN DNA (human clone Qc-9D3 ) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 1011: PN: WO0224956 FIGURE: 5 claimed DNA  
CN 15: PN: WO03027633 TABLE: 6 unclaimed DNA  
CN 967: PN: WO03003906 TABLE: 5A unclaimed DNA  
CN DNA (human clone QLL-D9139, Qc-7G12, Qc-7C1, Qc-12B2, Qc-12D5,  
QLL-A074, Qc-9D3)  
CN GenBank U52112  
SQL 181343  
MF Unspecified  
CI MAN

REFERENCE 1: 138:283693

REFERENCE 2: 138:266967

REFERENCE 3: 138:266966

REFERENCE 4: 138:266965





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REFERENCE 5: 138:168793

REFERENCE 6: 138:168236

REFERENCE 7: 138:67954

REFERENCE 8: 138:50950

REFERENCE 9: 137:347543

REFERENCE 10: 137:45438

L7 ANSWER 5 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN 390513-25-4 REGISTRY  
CN DNA (human gene ngn3 plus flanks) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN DNA (human neurogenin-3 gene ngn3 plus flanks)  
CN GenBank AF234829  
SQL 5340  
MF Unspecified  
CI MAN

REFERENCE 1: 138:199856

REFERENCE 2: 138:181862

REFERENCE 3: 136:146041

L7 ANSWER 6 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN 389189-05-3 REGISTRY  
CN DNA (human clone lambda A3. ) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 2102: PN: WO02059377 TABLE: 13 claimed DNA  
CN 921: PN: WO0224956 FIGURE: 4 claimed DNA  
CN DNA (human clone lambda A3. aldolase A gene)  
CN GenBank X12447  
SQL 7530  
MF Unspecified  
CI MAN

REFERENCE 1: 137:244289

REFERENCE 2: 137:45438

L7 ANSWER 7 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN 385252-57-3 REGISTRY  
CN DNA (human clone HG3925 gene KIAA0537 protein kinase cDNA plus flanks) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 118: PN: WO02070737 FIGURE: 6 unclaimed DNA  
CN 47: PN: WO02063037 TABLE: 1 unclaimed DNA  
CN DNA (human brain clone HG3925 gene KIAA0537 AMPK-family protein kinase ARK5 cDNA plus flanks)  
CN DNA (human clone HG3925 gene KIAA0537 cDNA)  
CN GenBank AB011109  
SQL 6828  
MF Unspecified  
CI MAN



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REFERENCE 1: 138:316554

REFERENCE 2: 137:246071

REFERENCE 3: 137:180730

L7 ANSWER 8 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN **336679-97-1** REGISTRY  
CN DNA (human .beta.3-adrenergic receptor gene promoter  
region-containing fragment) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN GenBank AF359565  
SQL 7127  
MF Unspecified  
CI MAN

REFERENCE 1: 136:49212

L7 ANSWER 9 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN **287496-91-7** REGISTRY  
CN DNA, d(G-A-T-C-C-G-C-C-T-C-T-G-G-G-G-A-G-C-A-G-C-T-T-G-A-G-G-A)  
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 48: PN: WO0044901 SEQID: 48 unclaimed DNA  
SQL 28  
MF Unspecified  
CI MAN

REFERENCE 1: 133:145940

L7 ANSWER 10 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN **287496-90-6** REGISTRY  
CN DNA, d(G-A-T-C-C-G-C-C-T-C-T-G-G-G-G-A-G-C-A-G-G-A-A-C-T-C-C-A)  
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 47: PN: WO0044901 SEQID: 47 unclaimed DNA  
SQL 28  
MF Unspecified  
CI MAN

REFERENCE 1: 133:145940

L7 ANSWER 11 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN **287496-89-3** REGISTRY  
CN DNA, d(G-A-T-C-C-G-C-C-T-C-T-G-G-G-G-A-G-G-T-C-C-T-T-C-T-C-C-A)  
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 46: PN: WO0044901 SEQID: 46 unclaimed DNA  
SQL 28  
MF Unspecified  
CI MAN

REFERENCE 1: 133:145940

L7 ANSWER 12 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN **287496-84-8** REGISTRY  
CN DNA, d(G-A-T-C-C-G-C-C-T-C-T-G-G-G-G-A-G-C-A-G-C-T-T-C-T-C-C-A)



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(9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 41: PN: WO0044901 SEQID: 41 unclaimed DNA  
SQL 28  
MF Unspecified  
CI MAN

REFERENCE 1: 133:145940

L7 ANSWER 13 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN **287496-35-9** REGISTRY  
CN DNA (human .beta.3 adrenoceptor gene 200-bp 20 CCTT  
repeat-containing 5'-flanking fragment) (9CI) (CA INDEX NAME)

OTHER NAMES:  
CN 3: PN: WO0044901 SEQID: 3 claimed DNA  
SQL 200  
MF Unspecified  
CI MAN

REFERENCE 1: 133:145940

L7 ANSWER 14 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN **287496-21-3** REGISTRY  
CN DNA, d(G-C-C-T-C-T-G-G-G-A-G) (9CI) (CA INDEX NAME)

OTHER NAMES:  
CN 1: PN: WO0044901 SEQID: 1 claimed DNA  
SQL 12  
MF Unspecified  
CI MAN

REFERENCE 1: 133:145940

L7 ANSWER 15 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN **267626-85-7** REGISTRY  
CN DNA (human gene GLP plus flanks) (9CI) (CA INDEX NAME)

OTHER NAMES:  
CN 1492: PN: WO02070737 FIGURE: 6 unclaimed DNA  
CN DNA (human gene GLP)  
CN GenBank AF266285  
SQL 21500  
MF Unspecified  
CI MAN

REFERENCE 1: 137:246071

REFERENCE 2: 135:117777

L7 ANSWER 16 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN **266660-95-1** REGISTRY  
CN DNA (human neuroligin 3 isoform gene plus neuroligin 3 isoform gene)  
(9CI) (CA INDEX NAME)

OTHER NAMES:  
CN 1414: PN: WO02070737 FIGURE: 6 unclaimed DNA  
CN GenBank AF217413  
SQL 32272  
MF Unspecified  
CI MAN



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REFERENCE 1: 137:246071

L7 ANSWER 17 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN **263952-68-7** REGISTRY  
CN DNA (Rattus norvegicus gene Phgdh plus flanks) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN DNA (Rattus norvegicus phosphoglycerate dehydrogenase gene plus flanks)  
CN GenBank AJ271975  
SQL 34071  
MF Unspecified  
CI MAN

REFERENCE 1: 135:132953

L7 ANSWER 18 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN **261334-62-7** REGISTRY  
CN DNA (Rattus norvegicus strain Wistar gene UGT1A2) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN GenBank AB025923  
SQL 4876  
MF Unspecified  
CI MAN

REFERENCE 1: 133:318161

L7 ANSWER 19 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN **258491-28-0** REGISTRY  
CN DNA (human clone RPCI-11-157G10 gene CACNA1E plus gene CACNA1E) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 1426: PN: WO02070737 FIGURE: 6 unclaimed DNA  
CN GenBank AF223391  
SQL 316704  
MF Unspecified  
CI MAN

REFERENCE 1: 137:246071

L7 ANSWER 20 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN **252323-74-3** REGISTRY  
CN 65: PN: WO9963080 FIGURE: 1g unclaimed sequence (9CI) (CA INDEX NAME)  
SQL 4984  
MF Unspecified  
CI MAN

REFERENCE 1: 132:31783

L7 ANSWER 21 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN **244895-31-6** REGISTRY  
CN DNA (Rattus norvegicus gene SLP protein SLP (septin-like protein) isoform SLP-b cDNA plus flanks) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN GenBank AF173899  
SQL 3745





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MF Unspecified  
CI MAN

REFERENCE 1: 134:66939

L7 ANSWER 22 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN 244895-16-7 REGISTRY  
CN DNA (Rattus norvegicus gene SLP protein SLP (septin-like protein)  
isoform SLP-a cDNA plus flanks) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN GenBank AF170253  
SQL 3869  
MF Unspecified  
CI MAN

REFERENCE 1: 134:66939

L7 ANSWER 23 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN 227594-62-9 REGISTRY  
CN DNA (human gene KvLQT1 plus gene KvLQT1) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1545: PN: WO02070737 FIGURE: 6 unclaimed DNA  
CN GenBank AJ006345  
SQL 404123  
MF Unspecified  
CI MAN

REFERENCE 1: 137:246071

L7 ANSWER 24 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN 217120-85-9 REGISTRY  
CN DNA (human chromosome 1 clone 1071N3 74,037-nucleotide fragment)  
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN DNA (human endothelin-converting enzyme-1 gene ECE1 isoenzyme  
c-specific promoter region-containing fragment)  
CN GenBank AL031728  
SQL 74037  
MF Unspecified  
CI MAN

REFERENCE 1: 132:304235

L7 ANSWER 25 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN 202053-19-8 REGISTRY  
CN DNA (human WI-38 cell gene BIN1 exons 7-12 plus flanks) (9CI) (CA  
INDEX NAME)

SQL 8310  
MF Unspecified  
CI MAN

REFERENCE 1: 130:49515

REFERENCE 2: 128:124353

L7 ANSWER 26 OF 27 REGISTRY COPYRIGHT 2003 ACS  
RN 177643-91-3 REGISTRY  
CN DNA (mouse clone 2B gene sim transcription factor cDNA plus flanks)



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(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Deoxyribonucleic acid (mouse clone 2B gene sim transcription factor  
messenger RNA-complementary plus 5'- and 3'-flanking region  
fragment)

OTHER NAMES:

CN DNA (mouse gene msim transcription factor MSIM cDNA and flanks)  
SQL 3071  
MF Unspecified  
CI MAN

REFERENCE 1: 133:39066

REFERENCE 2: 125:134562

L7 ANSWER 27 OF 27 REGISTRY COPYRIGHT 2003 ACS

RN **174098-94-3** REGISTRY

CN DNA (Mus musculus strain Swiss Webster gene Sim-2 protein cDNA plus  
flanks) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Deoxyribonucleic acid (Mus musculus strain Swiss Webster gene Sim2  
protein messenger RNA-complementary plus 5'- and 3'-flanking region  
fragment)

OTHER NAMES:

CN GenBank U40576  
SQL 3963  
MF Unspecified  
CI MAN

REFERENCE 1: 125:217812

REFERENCE 2: 124:256565

FILE 'HOME' ENTERED AT 16:14:07 ON 12 JUN 2003



GenCore version 5.1.6  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 12, 2003, 10:33:51 ; Search time 985 Seconds  
(without alignments)  
354.552 Million cell updates/sec

Title: US-09-761-116-1  
Perfect score: 12  
Sequence: 1 gctctcgaggag 12

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Search: 2054640 seqs, 14551402878 residues  
1 number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

GenEmbl.\*  
1: gb\_ba.\*  
2: gb\_hcg.\*  
3: gb\_in.\*  
4: gb\_cm.\*  
5: gb\_ov.\*  
6: gb\_pat.\*  
7: gb\_ph.\*  
8: gb\_pl.\*  
9: gb\_pr.\*  
10: gb\_ro.\*  
11: gb\_scs.\*  
12: gb\_sy.\*  
13: gb\_un.\*  
14: gb\_vi.\*  
15: em\_ba.\*  
16: em\_fun.\*  
17: em\_hum.\*  
18: em\_in.\*  
19: em\_mu.\*  
20: em\_om.\*  
21: em\_or.\*  
22: em\_ov.\*  
23: em\_pat.\*  
24: em\_ph.\*  
25: em\_pl.\*  
26: em\_ro.\*  
27: em\_scs.\*  
28: em\_un.\*  
29: em\_vi.\*  
30: em\_hcg\_hum.\*  
31: em\_hcg\_inv.\*  
32: em\_hcg\_other.\*  
33: em\_hcg\_mus.\*  
34: em\_hcg\_pln.\*  
35: em\_hcg\_rod.\*  
36: em\_hcg\_mam.\*  
37: em\_hcg\_vrt.\*  
38: em\_sy.\*  
39: em\_hngo\_hum.\*  
40: em\_hngo\_mus.\*  
41: em\_hngo\_other.\*

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	12	100.0	12	6	ARI37925	ARI37925 Sequence
2	12	100.0	12	6	ARI37965	ARI37965 Sequence
3	12	100.0	28	6	ARI37970	ARI37970 Sequence
4	12	100.0	28	6	ARI37971	ARI37971 Sequence
5	12	100.0	28	6	ARI37972	ARI37972 Sequence
6	12	100.0	130	6	HSU39347	U9347 Human MHC c
7	12	100.0	200	6	ARI37927	ARI37927 Sequence
8	12	100.0	204	11	G04524	G04524 human STS w
9	12	100.0	224	6	AX244726	AX244726 Sequence
10	12	100.0	266	11	G65279	G65279 FBNI-64new
11	12	100.0	278	9	HSNL1243D	X87489 H. sapiens g
12	12	100.0	287	9	HUMCMW05	D64153 Human DNA f
13	12	100.0	292	11	G09804	G09804 Human STS C
14	12	100.0	321	11	HUMUT7961A	L30159 Human STS U
15	12	100.0	330	11	G71854	G71854 A09122834FM
16	12	100.0	333	11	G71018	G71018 A09122834FB
17	12	100.0	370	9	AF366903	AF366903 Homo sapi
18	12	100.0	381	6	AX072790	AX072790 Sequence
19	12	100.0	384	10	MMEB2AK1	X04437 Mouse class
20	12	100.0	393	10	AF028605	AF028605 Rattus no
21	12	100.0	403	4	AB016736	AB016736 Sus scrof
22	12	100.0	403	4	AB016737	AB016737 Sus scrof
23	12	100.0	403	4	AB016738	AB016738 Sus scrof
24	12	100.0	403	4	AB016739	AB016739 Sus scrof
25	12	100.0	403	4	AB016740	AB016740 Sus scrof
26	12	100.0	403	4	AB016741	AB016741 Sus scrof
27	12	100.0	403	4	AB016742	AB016742 Sus scrof
28	12	100.0	403	4	AB016743	AB016743 Sus scrof
29	12	100.0	403	4	AB016744	AB016744 Sus scrof
30	12	100.0	417	10	AF028603	AF028603 Rattus no
31	12	100.0	427	11	G55693	G55693 SHGC-101064
32	12	100.0	432	10	AF028604	AF028604 Rattus no
33	12	100.0	437	10	MUSKX103	M21106 Mouse indic
34	12	100.0	439	4	AB016251	AB016251 Oryctolag
35	12	100.0	534	4	DOGP53A	L27630 Canis fam11
36	12	100.0	545	6	AX312180	AX312180 Sequence
37	12	100.0	548	8	AY088677	AY088677 Arabidops
38	12	100.0	591	10	AF300861	AF300861 Peromyscu
39	12	100.0	594	10	AF300862	AF300862 Peromyscu
40	12	100.0	596	9	HSJ33688	AJ323688 Homo sapi
41	12	100.0	599	9	HSJ36032	AJ326032 Homo sapi
42	12	100.0	599	9	HSJ36264	AJ342624 Homo sapi
43	12	100.0	606	9	HSJ38863	AJ338863 Homo sapi
44	12	100.0	612	9	HSJ35324	AJ335324 Homo sapi
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## ALIGNMENTS

RESULT 1  
LOCUS ARI37925  
DEFINITION Sequence 1 from patent US 6197580.  
ACCESSION ARI37925  
VERSION ARI37925.1 GI:14479434  
KEYWORDS  
SOURCE  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 12)  
AUTHORS Susulic,V.S. and Duzic,E.  
TITLE Transcriptional regulation of the human .beta.3-adrenergic receptor gene  
JOURNAL Patent: US 6197580-A 1 06-MAR-2001;

Pred. No. 18 the number of results predicted by chance to have a

FEATURES	Location/Qualifiers
source	1..12 /organism="unknown"
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ORIGIN	
Query Match	100.0%; Score 12; DB 6; Length 12;
Best Local Similarity	100.0%; Pred. No. 7.le+03;
Matches	12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1 GCCTCTGGGAG 12       1 GCCTCTGGGAG 12
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RESULT 2	
LOCUS	AR137965 28 bp DNA linear PAT 16-JUN-2001
DEFINITION	Sequence 41 from patent US 6197580.
ACCESSION	AR137965
VERSION	AR137965.1 GI:14479474
WORDS	.
SOURCE	Unknown.
ORGANISM	Unclassified.
REFERENCE	1 (bases 1 to 28)
AUTHORS	Suenailic,V.S. and Duzic,E.
TITLE	Transcriptional regulation of the human .beta.3-adrenergic receptor gene
JOURNAL	Patent: US 6197580-A 41 06-MAR-2001;
FEATURES	Location/Qualifiers
source	1..28 /organism="unknown"
BASE COUNT	4 a 5 g 6 t
ORIGIN	
Query Match	100.0%; Score 12; DB 6; Length 28;
Best Local Similarity	100.0%; Pred. No. 7.le+03;
Matches	12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1 GCCTCTGGGAG 12       6 GCCTCTGGGAG 17
Dd	
RESULT 3	
LOCUS	AR137970 28 bp DNA linear PAT 16-JUN-2001
DEFINITION	Sequence 46 from patent US 6197580.
ACCESSION	AR137970
VERSION	AR137970.1 GI:14479479
KEYWORDS	
SOURCE	Unknown.
ORGANISM	Unclassified.
REFERENCE	1 (bases 1 to 28)
AUTHORS	Suenailic,V.S. and Duzic,E.
TITLE	Transcriptional regulation of the human .beta.3-adrenergic receptor gene
JOURNAL	Patent: US 6197580-A 46 06-MAR-2001;
FEATURES	Location/Qualifiers
source	1..28 /organism="unknown"
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Query Match	100.0%; Score 12; DB 6; Length 28;
Best Local Similarity	100.0%; Pred. No. 7.le+03;
Matches	12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1 GCCTCTGGGAG 12       6 GCCTCTGGGAG 17
Dd	

[illegible]

REFERENCE Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.  
AUTHORS 1 (bases 1 to 130)  
TITLE Cereb.N., Kong,Y., Lee,S., Maye,P. and Yang,S.Y.  
JOURNAL Nucleotide sequences of MHC class I introns 1, 2, and 3 in humans  
MEDLINE and intron 2 in nonhuman primates  
PUBMED Tissue Antigens 47 (6), 498-511 (1996)  
66408732  
REFERENCE 2 (bases 1 to 130)  
AUTHORS Yang,S.Y. and Cereb.N.  
TITLE Direct Submission  
JOURNAL Submitted (24-OCT-1995) Soc Yang, Immunology Program, Memorial  
Sloan-Kettering Cancer Center, 1275 York Ave, Box 41, New York, NY  
10021, USA  
FEATURES  
source Location/Qualifiers  
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/map="6p21.3"  
/cell\_line="WT100BIS B cell line"  
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/number=1  
BASE COUNT 19 a 36 c 63 g 12 t  
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Query Match 100.0%; Score 12; DB 9; Length 130;  
Best Local Similarity 100.0%; Pred. No. 5.9e+03;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GCCTCTGGGAG 12  
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27 GCCTCTGGGAG 38  
Db  
RESULT 7  
AR137927  
LOCUS AR137927 200 bp DNA linear PAT 16-JUN-2001  
DEFINITION Sequence 3 from patent US 6197580.  
ACCESSION AR137927  
VERSION AR137927.1 GI:14479436  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 200)  
AUTHORS Susulic,V.S. and Duric,E.  
TITLE Transcriptional regulation of the human .beta.3-adrenergic receptor  
gene  
JOURNAL Patent: US 6197580-A 3 06-MAR-2001;  
FEATURES  
source Location/Qualifiers  
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/organism="unknown"  
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Best Local Similarity 100.0%; Pred. No. 5.6e+03;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GCCTCTGGGAG 12  
|||||  
61 GCCTCTGGGAG 72  
Db  
RESULT 8  
G04524  
LOCUS G04524 208 bp DNA linear STS 19-OCT-1995  
DEFINITION human STS WI-4034, sequence tagged site.

ACCESSION G04524  
VERSION G04524.1 GI:721482  
KEYWORDS STS sequence; primer; sequence tagged site.  
SOURCE Homo sapiens Random genome wide STS created from sheared whole  
human DNA.  
ORGANISM Homo sapiens  
REFERENCE 1 (bases 1 to 208)  
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.  
TITLE Whitehead Institute/MIT Center for Genome Research; Random Genome  
JOURNAL Unpublished (1995)  
REFERENCE 2 (bases 1 to 208)  
AUTHORS Hudson,T.  
TITLE Whitehead Institute/MIT Center for Genome Research; Physically  
JOURNAL Mapped STS  
COMMENT Unpublished (1995)  
Contact: Thomas Hudson  
Whitehead Institute/MIT Center for Genome Research  
Whitehead Institute for Biomedical Research  
9 Cambridge Center, Cambridge MA 02142 USA  
Tel: 617 252 1900  
Fax: 617 252 1902  
Email: thudson@genome.wi.mit.edu  
Primer A: TATGGCACTTGAAGAGG  
Primer B: CCCAAGAGAGCCATCT  
STS size: 155  
PCR Profile:  
Presoak:  
Denaturation:  
Annealing: 56 degrees C  
Polymerization:  
PCR Cycles: 35  
Thermal Cycler:  
Protocol:  
Template: 10 ng  
Primer: each 5 pm  
dNTPs: each 4 mM  
Tag Polymerase: 0.025 units/ul  
Total Vol: 20 ul  
Buffer:  
MgCl2: 1.5 mM  
KCl: 50 mM  
Tris-HCl: 10 mM  
pH: 9.3.  
FEATURES  
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921\_A\_10; (720,724)\_A\_(10,12); 304.8 cR from top of Chr15  
linkage group"  
STS  
51..205  
51..70  
primer\_bind 51..70  
primer\_bind 51 a 43 c 69 g 45 t  
BASE COUNT Complement(198..205)  
ORIGIN  
Query Match 100.0%; Score 12; DB 11; Length 208;  
Best Local Similarity 100.0%; Pred. No. 5.6e+03;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GCCTCTGGGAG 12  
|||||  
Db 14 GCCTCTGGGAG 25  
RESULT 9  
AX244726

LOCUS AX244726 234 bp DNA linear PAT 28-SEP-2001  
 DEFINITION Sequence 55 from Patent WO016750.  
 ACCESSION AX244726  
 VERSION AX244726.1 GI:15859605  
 KEYWORDS  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.  
 REFERENCE 1 (bases 1 to 234)  
 AUTHORS Vogel, G. and Wood, L.S.  
 TITLE G protein-coupled receptors  
 JOURNAL Patent: WO 0166750-A 55 13-SEP-2001;  
 PHARMACIA & UPJOHN COMPANY (US)  
 FEATURES  
 source 1.234  
 location/Qualifiers  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 BASE COUNT 56 a 64 c 65 g 49 t  
 ORIGIN  
 Query Match 100.0%; Score 12; DB 6; Length 234;  
 Best Local Similarity 100.0%; Pred. No. 5.5e+03;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Oy 1 GCCTGTGGGAG 12  
 |||||  
 100 GCCTGTGGGAG 111  
 Db  
 RESULT 10  
 G65279 266 bp DNA linear STS 14-JUL-2000  
 LOCUS FBN1-64new Random genomic STS Homo sapiens STS genomic, sequence  
 DEFINITION tagged site.  
 ACCESSION G65279  
 VERSION G65279.1 GI:921115  
 KEYWORDS  
 SOURCE Homo sapiens.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.  
 REFERENCE 1 (bases 1 to 266)  
 AUTHORS Oefner, P.J.  
 TITLE Human random genomic STS survey, unpublished data  
 JOURNAL Unpublished (1999)  
 COMMENT  
 Contact: Peter Oefner  
 Stanford Genome Center  
 Stanford University  
 855 California Ave., Palo Alto, CA 94304, USA  
 Tel: 6508121926  
 Fax: 6508121975  
 Email: Oefner@genome.stanford.edu  
 Primer A: CCTACTGTCTTCCCATTTCTAA  
 Primer B: ACAGGACATCAGAGAACTAAC  
 STS size: 266  
 PCR profile:  
 Initial denaturing step of 95 degrees C for 10 min to activate  
 AmpTag (1)  
 min for AmpliTaq);  
 14 cycles of touchdown: 94 degrees C for 20 sec, annealing for 1  
 min at 63  
 degrees C to  
 56 degrees C using decrements of 0.5 degrees C, extension at 72  
 degrees C for 1  
 min;  
 20 cycles at 94 degrees C for 20s, 56 degrees C for 45 sec, 72  
 degrees C for 1  
 min.  
 Protocol:  
 Template: 50 ng  
 Primer: each 0.2 uM

Tag Polymerase: 0.02 units/ul  
 Total Vol: 50 ul  
 Buffer:  
 MgCl2: 2.5 mM  
 KCl: 50 mM  
 Tris-HCl: 10 mM  
 pH: 8.3  
 DMSO: 0 %  
 FEATURES  
 source 1.266  
 location/Qualifiers  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /sex="Male and Female"  
 /clone\_lib="Random genomic STS"  
 STS  
 primer\_bind 1.23  
 primer\_bind complement(242..266)  
 BASE COUNT 69 a 68 c 65 g 64 t  
 ORIGIN  
 Query Match 100.0%; Score 12; DB 11; Length 266;  
 Best Local Similarity 100.0%; Pred. No. 5.5e+03;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Oy 1 GCCTGTGGGAG 12  
 |||||  
 145 GCCTGTGGGAG 134  
 Db  
 RESULT 11  
 HSNL1243D 278 bp DNA linear PRI 01-JUL-1996  
 LOCUS HSNL1243D  
 DEFINITION H.sapiens genomic DNA (chromosome 3; clone NL1243D).  
 ACCESSION X87489  
 VERSION X87489.1 GI:1418839  
 KEYWORDS  
 SOURCE Homo sapiens.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.  
 REFERENCE 1 (bases 1 to 278)  
 AUTHORS Zabarovsky, E.R.  
 TITLE Unpublished  
 JOURNAL Unpublished  
 REFERENCE 2 (bases 1 to 278)  
 AUTHORS Zabarovsky, E.R.  
 TITLE Direct Submission  
 JOURNAL Submitted (03-MAY-1995) Zabarovsky E.R., Microbiology and  
 Tumorbiology Center, Karolinska Institute, P.O. Box 280, Stockholm,  
 S-171 77, SWEDEN  
 FEATURES  
 source 1.278  
 location/Qualifiers  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /chromosome="3 (human)"  
 /clone="NL1243D"  
 /clone\_lib="mouse/human microcell hybrid line MHC 903.1"  
 /clone\_lib="NotI linking library"  
 /note="genomic DNA surrounding NotI sites"  
 BASE COUNT 44 a 95 c 77 g 62 t  
 ORIGIN  
 Query Match 100.0%; Score 12; DB 9; Length 278;  
 Best Local Similarity 100.0%; Pred. No. 5.4e+03;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Oy 1 GCCTGTGGGAG 12  
 |||||  
 240 GCCTGTGGGAG 251  
 Db  
 RESULT 12  
 HUMCW05/c



LOCUS	287 bp	DNA	linear	PRI 14-APR-2000
DEFINITION	Human DNA for HLA-Cw*0702, partial cds.			
ACCESSION	D64153			
VERSION	D64153.1	GI:1339908		
KEYWORDS	HLA-Cw*0702; MHC class I.			
SOURCE	Homo sapiens (isolate:TM) peripheral Blood lymphocyte DNA, clone:1-1.			
ORGANISM	Homo sapiens			
REFERENCE	Humana, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eumalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.			
TITLE	1 (sites)			
JOURNAL	Wang, H., Tokunaga, K., Ishikawa, Y., Asahina, A., Kuwata, S., Akaza, T., Todoroko, K., Shibata, Y., Takiguchi, M., and Fuji, T.			
MEDLINE	Identification and DNA typing of two Cw* alleles (Cw*0702 and Cw*0704) in Japanese, with the corrected sequence of Cw*0702 Hum. Immunol. 45 (1), 52-58 (1996)			
REFERENCE	96232973			
AUTHORS	2 (bases 1 to 267)			
JOURNAL	Wang, H.			
REFERENCE	Unpublished			
AUTHORS	3 (bases 1 to 287)			
TITLE	Wang, H.			
JOURNAL	Direct Submission			
DEFINITION	Submitted (16-SEP-1995) Huiyu Wang, Japanese Red Cross Central Blood Center, Department of Research, 4-1-31 Hiroo, Shibuya-ku, Tokyo 150, Japan (Tel:03-5485-6009, Fax:03-3406-7892)			
FEATURES	Location/Qualifiers			
source	1..287			
	/organism="Homo sapiens"			
	/isolate="TM"			
	/db_xref="taxon:9606"			
	/chromosome="6"			
	/map="6p21.3"			
	/clone="L-1"			
	/cell type="lymphocyte"			
	/tissue type="peripheral Blood"			
	<1..157			
exon	/number=1			
5'UTR	<1..84			
CDS	85..>157			
	/codon_start=1			
	/product="HLA-Cw*0702"			
	/protein_id="BAA11022.1"			
	/db_xref="GI:1561555"			
	/translation="MRVVAAPRTLLILSGALATETWA"			
intron	158..287			
	/number=1			
3'UTR	45 a 101 c 103 g 38 t			
IN				
Query Match	100.0%; Score 12; DB 9; Length 287;			
Best Local Similarity	100.0%; Pred. No. 5.4e+03;			
Matches	12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
QY	1 GCCTCTGGGAG 12			
DB	80 GCCTCTGGGAG 69			
RESULT 13				
G09804	292 bp	DNA	linear	STS 15-AUG-1995
LOCUS	human STS CHLC.GCT13C07.P16417 clone GCT13C07, sequence tagged site.			
DEFINITION	G09804			
ACCESSION	G09804.1	GI:941653		
VERSION	G09804			
KEYWORDS	STS; STS sequence; primer; sequence tagged site.			
SOURCE	Homo sapiens vector=pfuCI host=E.coli dut+ung+ (DH10B) Marker Selected genomic DNA prepared from XY individual of French nationality.			
ORGANISM	Homo sapiens			
	Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.			

```

REFERENCE          1 (bases 1 to 292)
AUTHORS            Murray,J., Sheffield,V., Weber,J.L., Duyk,G. and Buetow,K.H.
TITLE              Unpublished Human Linkage Center
JOURNAL            Unpublished (1995)
COMMENT            Synonyms: GCT13C07, CHLC.GCT13C07.T16344
                   Contact: Dr. Jeffrey C. Murray
                   ucfl
                   The University of Iowa
                   Department of Pediatrics, Iowa City, IA 52242, USA
                   Tel: (319) 356-3508
                   Fax: (319) 356-3347
                   Email: jeff-murray@uiowa.edu

Primer A: TTCTGCACTTACTATTGTGTAGC
Primer B: GTTCACGTGACAAGTTCCC
STS size: 122
PCR Profile:
    denature:      30 seconds at 94 degrees C
    annealing:     75 seconds at 55 degrees C
    extension:     15 seconds at 72 degrees C
    PCR cycles:   27
    extension:     6 minutes at 72 degrees C

Protocol:
Template:         30ng genomic DNA
Primer:           each 1.5 pmole
dNTPs:            each 200 uM
Tag Polymerase:   0.3 units
Total Vol:        10 uL

Buffer:
MgCl2: 1.5mM
KCl: 50mM
Tris: 10mM
pH: 8.3.
Location/Qualifiers
1..292
/organism="Homo sapiens"
/db_xref="taxon:9606"
62..183
primer_bind       62..86
STS               complement(164..183)
BASE COUNT       86 a 60 c 58 g 86 t 2 others
ORIGIN
Query Match      100.0%; Score 12; DB 11; Length 292;
Best Local Similarity 100.0%; Pred. No. 5..4e+03;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY               1 GCCTCTGGGGAG 12
                  |||||
Db                219 GCCCTCTGGGGAG 230

RESULT 14
LOCUS             HMUT7961A/c
DEFINITION        Human STS UT7961, 5' primer bind, sequence tagged site.
ACCESSION          L30159
VERSION            L30159.1 GI:605335
KEYWORDS           STS; PCR primer; STS sequence; microsatellite DNA; microsatellite marker; sequence tagged site; tetranucleotide repeat.
SOURCE             Homo sapiens
ORGANISM           Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
Genken,S.C., Matsunami,N., Plaetke,R., Albertsen,H., Ballard,L.,
Wells,R., Lawrence,E., Moore,M., Hollik,P.R., Carlson,M., Zhao,X.,
Robertson,M., Bradley,P., Elsner,T., Tingey,A., Lalouel,J.-M. and
White,R.
Genetic and physical mapping of simple sequence repeat containing
sequence tagged sites from the human genome
Unpublished (1994)

```

## COMMENT

Submitted by: Utah Center for Human Genome Research University of  
Utah, Dept. of Human Genetics  
2160 Eccles Institute of Human Genetics  
Salt Lake City, UT 84112

e-mail: steccorona.med.utah.edu

Primer A: TTGACTCTCCGAGAGGCTT

Primer B: TTGCTCTGGCGCTAGATT

End to Label: Primer A

PCR Profile:

Initial Denaturation: 94C 300sec

Cycles Denaturation Annealing Extension 5 94

C 10 sec. 54 C 10 sec. 72 C 20 sec. 30

56 C 10 sec. 72 C 20 sec. Mg++: 1.00 mM

Gel: Acrylamide 7%, Formamide 32%, Urea 34%

Alleles: 1

Location/Qualifiers

1. 321

/organism="Homo sapiens"

/db\_xref="taxon:9606"

197. 215

/evidence=experimental

64 a 102 c 97 g 53 t 5 others

## FEATURES

Buffer:  
MgCl<sub>2</sub>: 2 mM  
KCl: 50 mM  
Tris-HCl: 20 mM  
pH: 8.4.  
Location/Qualifiers  
1. 330  
/organism="Zea mays"  
/strain="DE811"  
/db\_xref="taxon:4577"  
/clone\_11b="maize leaf DNA"  
/note="PCR products amplified from genomic DNA"  
<1. 330

## BASE COUNT

67 a 107 c 83 g 71 t 2 others

## STS

## ORIGIN

Query Match

Best Local Similarity 100.0%; Score 12; DB 11; Length 330;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GCCTCTGGGGAG 12

80 GCCTCTGGGGAG 91

## Db

Search completed: June 12, 2003, 11:05:07  
Job time : 987 secs

## RESULT 15

## LOCUS

G71854 A09122834FM017 maize leaf DNA Zea mays STS genomic, sequence tagged

## DEFINITION

816.

## ACCESSION

G71854 G1:14333539

## VERSION

ST5.

## KEYWORDS

ST5.

## SOURCE

Zea mays.

## ORGANISM

Zea mays.

## REFERENCE

1 (bases 1 to 330)

Yang, Y.-J., Guo, L., Ashlock, D.A., Wen, T.J. and Schnable, P.S.

3' UTR sequences of maize genes

Unpublished (2001)

Unpublished (2001)

Unpublished (2001)

Unpublished (2001)

Unpublished (2001)

Unpublished (2001)

Unpublished (2001)

Unpublished (2001)

Unpublished (2001)

Unpublished (2001)

Unpublished (2001)

Unpublished (2001)

Unpublished (2001)

Unpublished (2001)

Unpublished (2001)

Unpublished (2001)

Unpublished (2001)

Unpublished (2001)

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OM nucleic - nucleic search, using SW model

Run on: June 12, 2003, 10:33:06 ; Search time 209 Seconds  
(without alignments)  
129.301 Million cell updates/sec

Title: US-09-761-116-1

Perfect score: 12  
Sequence: 1 gccctcg999g 12

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 2185239 seqs, 112599159 residues

Number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

N\_Geneseq\_101002:\*  
1: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1980.DAT:\*  
2: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1981.DAT:\*  
3: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1982.DAT:\*  
4: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1983.DAT:\*  
5: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1984.DAT:\*  
6: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1985.DAT:\*  
7: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1986.DAT:\*  
8: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1987.DAT:\*  
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16: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1995.DAT:\*  
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19: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1998.DAT:\*  
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21: /SID52/gcgdata/geneeq/geneeqn-emb1/NA2000.DAT:\*  
22: /SID52/gcgdata/geneeq/geneeqn-emb1/NA2001A.DAT:\*  
23: /SID52/gcgdata/geneeq/geneeqn-emb1/NA2001B.DAT:\*  
24: /SID52/gcgdata/geneeq/geneeqn-emb1/NA2002.DAT:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	12	100.0	12	21	AAA87902
2	12	100.0	28	21	AAA87942
3	12	100.0	28	21	AAA87947
4	12	100.0	28	21	AAA87948
5	12	100.0	28	21	AAA87949
6	12	100.0	113	22	ABA76256
7	12	100.0	113	22	ABA40796
8	12	100.0	113	22	AAK24907
9	12	100.0	113	22	AAK50902

10	12	100.0	113	22	AA127940	Probe #17973 for g
11	12	100.0	113	24	ABS24411	Human genome-deriv
12	12	100.0	200	21	AAA87904	Human beta-3-adren
13	12	100.0	227	21	AAC15250	Human secreted pro
14	12	100.0	234	22	AA330782	Human cDNA encodin
15	12	100.0	289	24	ABN21401	Human ORFX polynuc
16	12	100.0	294	21	AAC48449	Arabidopsis thalian
17	12	100.0	305	22	ABA51365	Human breast cell
18	12	100.0	305	22	ABA69368	Human foetal liver
19	12	100.0	305	22	ABA36303	Probe #14769 for g
20	12	100.0	305	22	AAK17648	Human brain expres
21	12	100.0	305	22	AAK43461	Human bone marrow
22	12	100.0	305	22	AA124242	Probe #14175 for g
23	12	100.0	305	22	AA149525	Probe #18211 used t
24	12	100.0	305	22	AA109803	Probe #9794 used t
25	12	100.0	305	24	ABS17580	Human genome-deriv
26	12	100.0	312	22	AA187082	Human polynucleoti
27	12	100.0	343	22	ABA07885	Human ovarian and
28	12	100.0	343	22	AA102637	Human reproductive
29	12	100.0	349	22	ABA66473	Human foetal liver
30	12	100.0	349	22	ABA33535	Probe #12001 for g
31	12	100.0	349	22	AAK14892	Human brain expres
32	12	100.0	349	22	AA146673	Probe #15359 used
33	12	100.0	351	24	ABU81321	Human ovarian canc
34	12	100.0	360	21	AACT4668	Human ORFX ORF23
35	12	100.0	374	22	AA189863	Human polynucleoti
36	12	100.0	381	22	AAFe7500	Novel human polynu
37	12	100.0	385	24	ABU82542	Human ovarian canc
38	12	100.0	402	21	AAC02389	Human secreted pro
39	12	100.0	403	24	ABN20175	Human ORFX polynuc
40	12	100.0	409	24	ABK87524	Mammalian nebulin-
41	12	100.0	412	22	AAH98943	Human EST-derived
42	12	100.0	413	23	ABV15628	Human prostate exp
43	12	100.0	417	22	AA182925	Human polynucleoti
44	12	100.0	435	22	ABA21400	Human nervous syst
45	12	100.0	438	22	ABA09485	Human Zn metallopro

#### ALIGNMENTS

RESULT 1  
ID AAA87902 standard; DNA; 12 BP.  
AC AAA87902;  
DT 07-DEC-2000 (first entry)  
XX  
DE Human beta-3-adrenergic receptor B segment oligonucleotide SEQ ID NO:1.  
KW Human; beta-3-adrenergic receptor; beta-3-AR; transcription; promoter;  
KW regulation; identification; trans-activating factor; drug screening;  
KW gene expression regulation; obesity; type II diabetes; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200044901-A1.  
XX  
PD 03-AUG-2000.  
XX  
PF 01-FEB-2000; 2000WO-US02632.  
XX  
PR 01-FEB-1999; 99US-0243335.  
XX  
PA (AMHP) AMERICAN HOME PROD CORP.  
XX  
PI Suenlic VS; Duzic E;  
XX  
DR WPI; 2000-482973/42.  
XX  
PT New isolated nucleic acid useful for screening assays to identify  
compounds capable of regulating beta3-AR (adrenergic receptor)

PT expression, is composed of three regulatory segments -  
XX  
PS Claim 2; Page 57; 88bp; English.  
CC The present sequence represents the core nucleotide sequence from the  
CC B segment of the human beta-3-adrenergic receptor (beta-3-AR) regulatory  
CC region. The core nucleotide sequence binds to a B-segment-binding  
CC trans-activating factor. Recombinant vectors under control of the  
CC transcription regulation region comprising nucleotide sequences  
CC containing the core nucleotide sequence from the B segment of the human  
CC beta-3-AR regulatory region provide a substrate for high throughput  
CC assays, particularly reporter gene assays to identify compounds capable  
CC of increasing or decreasing the level of expression of beta-3-AR. The  
CC nucleotide sequences can be used for regulating gene expression and for  
CC drug screening. It is envisaged that beta-3-AR stimulation may have  
CC beneficial effects in the treatment of obesity and type II diabetes.  
XX  
SQ Sequence 12 BP; 1 A; 3 C; 6 G; 2 T; 0 other;  
Query Match 100.0%; Score 12; DB 21; Length 12;  
Best Local Similarity 100.0%; Pred. No. 2,1e+03;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GCCTCTGGGAG 12  
DB 1 GCCTCTGGGAG 12  
RESULT 2  
AAA87942  
ID AAA87942 standard; DNA; 28 BP.  
XX  
AC AAA87942;  
XX  
DT 07-DEC-2000 (first entry)  
XX  
DE Beta-3-AR segment B mutational analysis oligonucleotide SEQ ID NO:41.  
XX  
KW Human; beta-3-adrenergic receptor; beta-3-AR; transcription; promoter;  
KW regulation; identification; trans-activating factor; drug screening;  
KW gene expression regulation; obesity; type II diabetes; mutation; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200044901-A1.  
XX  
PD 03-AUG-2000.  
XX  
PT 01-FEB-2000; 2000WO-US02632.  
XX  
PT 01-FEB-1999; 99US-0243335.  
XX  
PA (AMHP) AMERICAN HOME PROD CORP.  
XX  
PS Suenlic VS, Duzic E;  
XX  
DR WPI; 2000-482973/42.  
XX  
PT New isolated nucleic acid useful for screening assays to identify  
PT compounds capable of regulating beta3-AR (adrenergic receptor)  
PT expression, is composed of three regulatory segments -  
XX  
PS Example 1; Fig 7; 88bp; English.  
CC The present invention describes a core nucleotide sequence from the  
CC B segment of the human beta-3-adrenergic receptor (beta-3-AR) regulatory  
CC region. The core nucleotide sequence binds to a B-segment-binding  
CC trans-activating factor. Recombinant vectors under control of the  
CC transcription regulation region comprising nucleotide sequences  
CC containing the core nucleotide sequence from the B segment of the human  
CC beta-3-AR regulatory region provide a substrate for high throughput  
CC assays, particularly reporter gene assays to identify compounds capable  
CC of increasing or decreasing the level of expression of beta-3-AR. The

CC nucleotide sequences can be used for regulating gene expression and for  
CC drug screening. It is envisaged that beta-3-AR stimulation may have  
CC beneficial effects in the treatment of obesity and type II diabetes.  
CC The present sequence represents a human beta-3-AR segment B mutational  
CC analysis oligonucleotide, which is used in the exemplification of the  
CC present invention.  
XX  
SQ Sequence 28 BP; 4 A; 10 C; 8 G; 6 T; 0 other;  
Query Match 100.0%; Score 12; DB 21; Length 28;  
Best Local Similarity 100.0%; Pred. No. 2,1e+03;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GCCTCTGGGAG 12  
DB 6 GCCTCTGGGAG 17  
RESULT 3  
AAA87947  
ID AAA87947 standard; DNA; 28 BP.  
XX  
AC AAA87947;  
XX  
DT 07-DEC-2000 (first entry)  
XX  
DE Beta-3-AR segment B mutational analysis oligonucleotide SEQ ID NO:46.  
XX  
KW Human; beta-3-adrenergic receptor; beta-3-AR; transcription; promoter;  
KW regulation; identification; trans-activating factor; drug screening;  
KW gene expression regulation; obesity; type II diabetes; mutation; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200044901-A1.  
XX  
PD 03-AUG-2000.  
XX  
PT 01-FEB-2000; 2000WO-US02632.  
XX  
PT 01-FEB-1999; 99US-0243335.  
XX  
PA (AMHP) AMERICAN HOME PROD CORP.  
XX  
PS Suenlic VS, Duzic E;  
XX  
DR WPI; 2000-482973/42.  
XX  
PT New isolated nucleic acid useful for screening assays to identify  
PT compounds capable of regulating beta3-AR (adrenergic receptor)  
PT expression, is composed of three regulatory segments -  
XX  
PS Example 1; Fig 7; 88bp; English.  
CC The present invention describes a core nucleotide sequence from the  
CC B segment of the human beta-3-adrenergic receptor (beta-3-AR) regulatory  
CC region. The core nucleotide sequence binds to a B-segment-binding  
CC trans-activating factor. Recombinant vectors under control of the  
CC transcription regulation region comprising nucleotide sequences  
CC containing the core nucleotide sequence from the B segment of the human  
CC beta-3-AR regulatory region provide a substrate for high throughput  
CC assays, particularly reporter gene assays to identify compounds capable  
CC of increasing or decreasing the level of expression of beta-3-AR. The  
CC nucleotide sequences can be used for regulating gene expression and for  
CC drug screening. It is envisaged that beta-3-AR stimulation may have  
CC beneficial effects in the treatment of obesity and type II diabetes.  
CC The present sequence represents a human beta-3-AR segment B mutational  
CC analysis oligonucleotide, which is used in the exemplification of the  
CC present invention.  
XX  
SQ Sequence 28 BP; 3 A; 10 C; 8 G; 7 T; 0 other;  
Query Match 100.0%; Score 12; DB 21; Length 28;

Best Local Similarity 100.0%; Pred. No. 2.1e+03;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGGAG 12  
DB 6 GCCTCTGGGGAG 17

RESULT 4  
ID AAA87948 standard; DNA; 28 BP.

AC AAA87948;  
XX  
XX 07-DEC-2000 (first entry)

DE Beta-3-AR segment B mutational analysis oligonucleotide SEQ ID NO:47.

XX Human; beta-3-adrenergic receptor; beta-3-AR; transcription; promoter;  
XX regulation; identification; trans-activating factor; drug screening;  
XX gene expression regulation; obesity; type II diabetes; mutation; ss.

XX Homo sapiens.

XX WO200044901-A1.

XX 03-AUG-2000.

XX 01-FEB-2000; 2000WO-US02632.

XX 01-FEB-1999; 99US-0243335.

XX (AMHP) AMERICAN HOME PROD CORP.

XX Susulic VS, Duzic E;

XX WPI; 2000-482973/42.

PT New isolated nucleic acid useful for screening assays to identify  
PT compounds capable of regulating beta3-AR (adrenergic receptor)  
PT expression, is composed of three regulatory segments -

XX Example 1; Fig 7; 88pp; English.

CC The present invention describes a core nucleotide sequence from the  
CC B segment of the human beta-3-adrenergic receptor (beta-3-AR) regulatory  
CC region. The core nucleotide sequence binds to a B-segment-binding  
CC trans-activating factor. Recombinant vectors under control of the  
CC transcription regulation region comprising nucleotide sequences  
CC containing the core nucleotide sequence from the B segment of the human  
CC beta-3-AR regulatory region provide a substrate for high throughput  
CC assays, particularly reporter gene assays to identify compounds capable  
CC of increasing or decreasing the level of expression of beta-3-AR. The  
CC nucleotide sequences can be used for regulating gene expression and for  
CC drug screening. It is envisaged that beta-3-AR stimulation may have  
CC beneficial effects in the treatment of obesity and type II diabetes.

CC The present sequence represents a human beta-3-AR segment B mutational  
CC analysis oligonucleotide, which is used in the exemplification of the  
CC present invention.

XX Sequence 28 BP; 6 A; 9 C; 9 G; 4 T; 0 other;

Query Match 100.0%; Score 12; DB 21; Length 28;

Best Local Similarity 100.0%; Pred. No. 2.1e+03;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGGAG 12

DB 6 GCCTCTGGGGAG 17

RESULT 5  
AAA87949

ID AAA87949 standard; DNA; 28 BP.

XX AAA87949;

XX 07-DEC-2000 (first entry)

DE Beta-3-AR segment B mutational analysis oligonucleotide SEQ ID NO:48.

XX Human; beta-3-adrenergic receptor; beta-3-AR; transcription; promoter;  
XX regulation; identification; trans-activating factor; drug screening;  
XX gene expression regulation; obesity; type II diabetes; mutation; ss.

XX Homo sapiens.

XX WO200044901-A1.

XX 03-AUG-2000.

XX 01-FEB-2000; 2000WO-US02632.

XX 01-FEB-1999; 99US-0243335.

XX (AMHP) AMERICAN HOME PROD CORP.

XX Susulic VS, Duzic E;

XX WPI; 2000-482973/42.

PT New isolated nucleic acid useful for screening assays to identify  
PT compounds capable of regulating beta3-AR (adrenergic receptor)  
PT expression, is composed of three regulatory segments -

XX Example 1; Fig 7; 88pp; English.

CC The present invention describes a core nucleotide sequence from the  
CC B segment of the human beta-3-adrenergic receptor (beta-3-AR) regulatory  
CC region. The core nucleotide sequence binds to a B-segment-binding  
CC trans-activating factor. Recombinant vectors under control of the  
CC transcription regulation region comprising nucleotide sequences  
CC containing the core nucleotide sequence from the B segment of the human  
CC beta-3-AR regulatory region provide a substrate for high throughput  
CC assays, particularly reporter gene assays to identify compounds capable  
CC of increasing or decreasing the level of expression of beta-3-AR. The  
CC nucleotide sequences can be used for regulating gene expression and for  
CC drug screening. It is envisaged that beta-3-AR stimulation may have  
CC beneficial effects in the treatment of obesity and type II diabetes.

CC The present sequence represents a human beta-3-AR segment B mutational  
CC analysis oligonucleotide, which is used in the exemplification of the  
CC present invention.

XX Sequence 28 BP; 5 A; 7 C; 11 G; 5 T; 0 other;

Query Match 100.0%; Score 12; DB 21; Length 28;

Best Local Similarity 100.0%; Pred. No. 2.1e+03;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGGAG 12

DB 6 GCCTCTGGGGAG 17

RESULT 6

ABA76256

XX ABA76256 standard; DNA; 113 BP.

XX ABA76256;

XX 01-FEB-2002 (first entry)

XX Human foetal liver single exon nucleic acid probe #24561.

XX Human; foetal liver; gene expression; single exon nucleic acid probe; ss.

OS Homo sapiens.  
 XX  
 PN WO200157277-A2.  
 XX  
 PD 09-AUG-2001.  
 XX  
 PF 30-JAN-2001; 2001WO-US00669.  
 XX  
 PR 04-FEB-2000; 2000US-0180312.  
 PR 26-MAY-2000; 2000US-0207456.  
 PR 30-JUN-2000; 2000US-0608408.  
 PR 03-AUG-2000; 2000US-0632366.  
 PR 21-SEP-2000; 2000US-0234687.  
 PR 27-SEP-2000; 2000US-0236359.  
 PR 04-OCT-2000; 2000GB-0024263.  
 XX  
 PA (MOLE-) MOLECULAR DYNAMICS INC.  
 PI Penn SG, Hanzel DK, Chen W, Rank DR;  
 WPI; 2001-483447/52.  
 XX  
 PT Human genome-derived single exon nucleic acid probes useful for  
 PT analyzing gene expression in human fetal liver -  
 XX  
 PS Claim 4; SEQ ID NO 24561; 639bp + sequence listing; English.  
 CC The invention relates to a single exon nucleic acid probe for  
 CC measuring human gene expression in a sample derived from human foetal  
 CC liver. The single exon nucleic acid probes may be used for predicting,  
 CC measuring and displaying gene expression in samples derived from human  
 CC fetal liver. The present sequence is a single exon nucleic acid  
 CC probe of the invention.  
 CC Note: The sequence data for this patent did not form part of the  
 CC printed specification, but was obtained in electronic format directly  
 CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.  
 CC  
 SQ Sequence 113 BP; 7 A; 44 C; 29 G; 33 T; 0 other;  
 Query Match 100.0%; Score 12; DB 22; Length 113;  
 Best Local Similarity 100.0%; Pred. No. 2e+03;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 GCCTCTGGGAG 12  
 |||||  
 Db 94 GCCTCTGGGAG 105  
 |||||  
 TLT 7  
 ID ABA40796 standard; DNA; 113 BP.  
 XX ABA40796;  
 AC  
 DT 23-JAN-2002 (first entry)  
 XX  
 DE Probe #19262 for gene expression analysis in human heart cell sample;  
 XX  
 DE Human; gene expression; heart; microarray; vascular system; probe;  
 XX  
 DE Cardiovascular disease; hypertension; cardiac arrhythmia;  
 XX  
 DE congenital heart disease; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200157274-A2.  
 XX  
 PD 09-AUG-2001.  
 XX  
 PF 30-JAN-2001; 2001WO-US00666.  
 XX  
 PR 04-FEB-2000; 2000US-0180312.  
 PR 26-MAY-2000; 2000US-0207456.  
 PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.  
 PR 21-SEP-2000; 2000US-0234687.  
 PR 27-SEP-2000; 2000US-0236359.  
 PR 04-OCT-2000; 2000GB-0024263.  
 XX  
 PA (MOLE-) MOLECULAR DYNAMICS INC.  
 PI Penn SG, Hanzel DK, Chen W, Rank DR;  
 WPI; 2001-488899/53.  
 XX  
 PT Single exon nucleic acid probes for analyzing gene expression in human  
 PT hearts -  
 XX  
 PS Claim 4; SEQ ID NO 19262; 530bp; English.  
 CC The present invention relates to single exon nucleic acid probes for  
 CC measuring human gene expression in a sample derived from human heart. The  
 CC present sequence is one such probe. The probes may be used for  
 CC predicting, measuring and displaying gene expression in samples derived  
 CC from the human heart via microarrays. By measuring gene expression, the  
 CC probes are useful for predicting, diagnosing, grading, staging,  
 CC monitoring and prognosing diseases of the human heart and vascular system  
 CC e.g. cardiovascular disease, hypertension, cardiac arrhythmias and  
 CC congenital heart disease.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences.  
 CC  
 SQ Sequence 113 BP; 7 A; 44 C; 29 G; 33 T; 0 other;  
 Query Match 100.0%; Score 12; DB 22; Length 113;  
 Best Local Similarity 100.0%; Pred. No. 2e+03;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 GCCTCTGGGAG 12  
 |||||  
 Db 94 GCCTCTGGGAG 105  
 |||||  
 RESULT 8  
 ID AAK24907 standard; DNA; 113 BP.  
 XX AAK24907;  
 AC  
 DT 05-NOV-2001 (first entry)  
 XX  
 DE Human brain expressed single exon probe SEQ ID NO: 24898.  
 XX  
 DE Human; brain expressed exon; gene expression analysis; probe;  
 XX  
 DE microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;  
 XX  
 DE epilepsy; cancer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200157275-A2.  
 XX  
 PD 09-AUG-2001.  
 XX  
 PF 30-JAN-2001; 2001WO-US00667.  
 XX  
 PR 04-FEB-2000; 2000US-0180312.  
 PR 26-MAY-2000; 2000US-0207456.  
 PR 30-JUN-2000; 2000US-0608408.  
 PR 03-AUG-2000; 2000US-0632366.  
 PR 21-SEP-2000; 2000US-0234687.  
 PR 27-SEP-2000; 2000US-0236359.  
 PR 04-OCT-2000; 2000GB-0024263.  
 XX  
 PA (MOLE-) MOLECULAR DYNAMICS INC.  
 PI Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-483446/52.  
XX  
XX Single exon nucleic acid probes for analyzing gene expression in human  
PT brain -  
XX  
PS Example 4; SEQ ID NO: 24898; 650bp + Sequence Listing; English.  
XX  
CC The present invention provides a number of single exon nucleic acid  
CC probes which are derived from genomic sequences expressed in the human  
CC brain. They can be used to measure gene expression in brain cell samples,  
CC which may enable the diagnosis and improved treatment of nervous system  
CC diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,  
CC epilepsy and cancers. The present sequence is one of the probes of the  
CC invention.  
XX  
SQ Sequence 113 BP; 7 A; 44 C; 29 G; 33 T; 0 other;  
XX  
XX Query Match 100.0%; Score 12; DB 22; Length 113;  
XX Best Local Similarity 100.0%; Pred. No. 2e+03;  
XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
DB 1 GCCTCTGGGAG 12  
94 GCCTCTGGGAG 105  
XX  
RESULT 9  
AAK50902  
ID AAK50902 standard; DNA; 113 BP.  
XX  
XX AAK50902;  
XX  
XX 06-NOV-2001 (first entry)  
XX  
XX Human bone marrow expressed single exon probe SEQ ID NO: 25459.  
XX  
XX Human; bone marrow expressed exon; gene expression analysis; probe;  
XX microarray; cancer; leukemia; lymphoma; myeloma; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO200157276-A2.  
XX  
XX 09-AUG-2001.  
XX  
XX 30-JAN-2001; 2001WO-US00668.  
XX  
XX 04-FEB-2000; 2000US-0180312.  
XX 26-MAY-2000; 2000US-0207456.  
XX 30-JUN-2000; 2000US-0608408.  
XX 03-AUG-2000; 2000US-0632366.  
XX 21-SEP-2000; 2000US-0234687.  
XX 27-SEP-2000; 2000US-0236359.  
XX 04-OCT-2000; 2000GB-0024263.  
XX  
XX (MOLE-) MOLECULAR DYNAMICS INC.  
XX  
XX Penn SG, Hanzel DK, Chen W, Rank DR;  
XX WPI; 2001-488901/53.  
XX  
XX Human genome-derived single exon nucleic acid probes useful for  
XX analyzing gene expression in human bone marrow -  
XX  
XX Example 4; SEQ ID NO: 25459; 658bp + Sequence Listing; English.  
XX  
XX The present invention provides a number of single exon nucleic acid  
XX probes which are derived from genomic sequences expressed in the human  
XX bone marrow. They can be used to measure gene expression in bone marrow  
XX samples, which may enable the improved diagnosis and treatment of cancers  
XX such as lymphoma, leukemia and myeloma. The present sequence is one of  
XX the probes of the invention.

XX  
SQ Sequence 113 BP; 7 A; 44 C; 29 G; 33 T; 0 other;  
XX  
XX Query Match 100.0%; Score 12; DB 22; Length 113;  
XX Best Local Similarity 100.0%; Pred. No. 2e+03;  
XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
DB 1 GCCTCTGGGAG 12  
94 GCCTCTGGGAG 105  
XX  
RESULT 10  
AAI27940  
ID AAI27940 standard; DNA; 113 BP.  
XX  
XX AAI27940;  
XX  
XX 12-OCT-2001 (first entry)  
XX  
XX Probe #17873 for gene expression analysis in human cervical cell sample.  
XX  
XX Probe; human; microarray; gene expression; cervical epithelial cell;  
XX cervical cancer; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO200157278-A2.  
XX  
XX 09-AUG-2001.  
XX  
XX 30-JAN-2001; 2001WO-US00670.  
XX  
XX 04-FEB-2000; 2000US-0180312.  
XX 26-MAY-2000; 2000US-0207456.  
XX 30-JUN-2000; 2000US-0608408.  
XX 03-AUG-2000; 2000US-0632366.  
XX 21-SEP-2000; 2000US-0234687.  
XX 27-SEP-2000; 2000US-0236359.  
XX 04-OCT-2000; 2000GB-0024263.  
XX  
XX (MOLE-) MOLECULAR DYNAMICS INC.  
XX  
XX Penn SG, Hanzel DK, Chen W, Rank DR;  
XX WPI; 2001-488901/53.  
XX  
XX Human genome-derived single exon nucleic acid probes useful for  
XX analyzing gene expression in human cervical epithelial cells -  
XX  
XX Claim 25; SEQ ID NO 17873; 487bp; English.  
XX  
XX The present invention relates to human single exon nucleic acid probes  
XX (SENPs). The present sequence is one such probe. The SENPs are derived  
XX from human HeLa cells. The SENPs can be used to produce a single exon  
XX microarray, which can be used for measuring human gene expression in a  
XX sample derived from human cervical epithelial cells. By measuring gene  
XX expression, the probes are therefore useful in grading and/or staging  
XX of diseases of the cervix, notably cervical cancer.  
XX Note: The sequence data for this patent did not form part of the printed  
XX specification, but was obtained in electronic format directly from WIPO  
XX at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
XX Sequence 113 BP; 7 A; 44 C; 29 G; 33 T; 0 other;  
XX  
XX Query Match 100.0%; Score 12; DB 22; Length 113;  
XX Best Local Similarity 100.0%; Pred. No. 2e+03;  
XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
DB 1 GCCTCTGGGAG 12  
94 GCCTCTGGGAG 105

RESULT 11  
 ABS24411  
 ID ABS24411 standard; DNA; 113 BP.  
 AC  
 XX ABS24411;  
 DT 19-AUG-2002 (first entry)  
 XX  
 XX Human genome-derived single exon probe ORF from lung SEQ ID No 24402.  
 DE  
 XX Human; de; single exon probe; asthma; lung cancer; COPD; ILD;  
 KW chronic obstructive pulmonary disease; interstitial lung disease;  
 KW familial idiopathic pulmonary fibrosis; neurofibromatosis;  
 KW tuberous sclerosis; Gaucher's disease; Niemann-Pick disease;  
 KW Hermansky-Pudlak syndrome; sarcoidosis; pulmonary haemostasis;  
 KW pulmonary histiocytosis; lymphangioleiomyomatosis; Karagener syndrome;  
 KW pulmonary alveolar proteinosis; fibrocystic pulmonary dysplasia;  
 KW primary ciliary dyskinesia; pulmonary hypertension;  
 KW hyaline membrane disease; open reading frame; ORF.  
 XX  
 XX Homo sapiens.  
 PN WO200186003-A2.  
 PD 15-NOV-2001.  
 XX  
 PF 30-JAN-2001; 2001MO-US00665.  
 XX  
 XX 04-FEB-2000; 2000US-180312P.  
 XX 26-MAY-2000; 2000US-207456P.  
 XX 30-JUN-2000; 2000US-0608408.  
 XX 03-AUG-2000; 2000US-0632366.  
 XX 21-SEP-2000; 2000US-234687P.  
 XX 27-SEP-2000; 2000US-236359P.  
 XX 04-OCT-2000; 2000GB-0024263.  
 XX  
 XX (MOLE-) MOLECULAR DYNAMICS INC.  
 XX  
 XX Penn SG, Hanzel DK, Chen W, Rank DR;  
 PI WPI; 2002-114183/15.  
 DR  
 XX  
 XX Spatially-addressable set of single exon nucleic acid probes, used to  
 PT measure gene expression in human lung samples -  
 XX  
 PS Claim 4; SEQ ID No 24402; 634bp; English.  
 XX

expression analysis, and for identifying exons in a gene, particularly  
 CC using human lung derived mRNA and for the study of lung diseases  
 CC such as asthma, lung cancer, chronic obstructive pulmonary disease  
 CC (COPD), interstitial lung disease (ILD), familial idiopathic pulmonary  
 CC fibrosis, neurofibromatosis, tuberous sclerosis, Gaucher's disease,  
 CC Niemann-Pick disease, Hermansky-Pudlak syndrome, sarcoidosis, pulmonary  
 CC haemostasis, pulmonary histiocytosis, lymphangioleiomyomatosis,  
 CC pulmonary alveolar proteinosis, Karagener syndrome, fibrocystic  
 CC pulmonary dysplasia, primary ciliary dyskinesia, pulmonary hypertension  
 CC and hyaline membrane disease. The present sequence is a single exon  
 CC probe open reading frame of the invention.  
 CC Note: The sequence data for this patent did not form part  
 CC of the printed specification, but was obtained in electronic  
 CC format directly from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences.  
 CC  
 XX  
 SQ Sequence 113 BP; 7 A; 44 C; 29 G; 33 T; 0 other;  
 Query Match 100.0%; Score 12; DB 24; Length 113;  
 Best Local Similarity 100.0%; Pred. No. 2e+03;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Oy 1 GCCTCTGGGAG 12  
 Db 94 GCCTCTGGGAG 105  
 RESULT 12  
 ID AAA87904  
 XX AAA87904 standard; DNA; 200 BP.  
 XX  
 AC AAA87904;  
 XX  
 DT 07-DEC-2000 (first entry)  
 XX  
 XX Human beta-3-adrenergic receptor 5' flanking region SEQ ID NO:3.  
 DE  
 KW Human; beta-3-adrenergic receptor; beta-3-AR; transcription; promoter;  
 KW regulation; identification; trans-activating factor; drug screening;  
 KW gene expression regulation; obesity; type II diabetes; drg.  
 XX  
 XX Homo sapiens.  
 OS  
 XX  
 XX WO200044901-A1.  
 FN  
 XX 03-AUG-2000.  
 PD  
 XX  
 PF 01-FEB-2000; 2000MO-US02632.  
 XX  
 XX 01-FEB-1999; 99US-0243335.  
 PR  
 XX (AMHP) AMERICAN HOME PROD CORP.  
 PA  
 XX  
 PI Suenilic VS, Duzic E;  
 DT WPI; 2000-482973/42.  
 DR  
 XX  
 XX New isolated nucleic acid useful for screening assays to identify  
 FT compounds capable of regulating beta-AR (adrenergic receptor)  
 PT expression, is composed of three regulatory segments -  
 XX  
 PS Claim 10; Fig 6A; 88bp; English.  
 XX  
 CC The present invention describes a core nucleotide sequence from the  
 CC B segment of the human beta-3-adrenergic receptor (beta-3-AR) regulatory  
 CC region. The core nucleotide sequence binds to a B-segment-binding  
 CC trans-activating factor. Recombinant vectors under control of the  
 CC transcription regulation region comprising nucleotide sequences  
 CC containing the core nucleotide sequence from the B segment of the human  
 CC beta-3-AR regulatory region provide a substrate for high throughput  
 CC assays, particularly reporter gene assays to identify compounds capable  
 CC of increasing or decreasing the level of expression of beta-3-AR. The  
 CC nucleotide sequences can be used for regulating gene expression and for



CC drug screening. It is envisaged that beta-3-AR stimulation may have  
 CC beneficial effects in the treatment of obesity and type II diabetes.  
 CC The present sequence represents the human beta-3-adrenergic receptor 5'  
 CC flanking region, which is used in the exemplification of the present  
 CC invention.

XX Sequence 200 BP; 25 A; 70 C; 37 G; 68 T; 0 other;

Query Match 100.0%; Score 12; DB 21; Length 200;

Best Local Similarity 100.0%; Pred. No. 2e+03; Mismatches 0; Indels 0; Gaps 0;

Matches 12; Conservative 0; Indels 0; Gaps 0;

Db 61 GCCTCTGGGAG 72

RESULT 13

AA15250/c  
 AAC15250 standard; cDNA; 227 BP.

AC AAC15250;

DT 06-OCT-2000 (first entry)

DE Human secreted protein 5' EST, SEQ ID NO: 19325.

KM Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;  
 KM gene therapy; chromosome mapping; ss.

OS Homo sapiens.

PN EPI033401-A2.

PD 06-SEP-2000.

PF 21-FEB-2000; 2000EP-0200610.

PR 26-FEB-1999; 99US-0122487.

PA (GSET) GENSET.

PI Dumas Milne Edwards J, Duclert A, Giordano J;

XX WPI: 2000-500381/45.

PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for  
 PT obtaining cDNAs and genomic DNAs that correspond to 5' ESTs and for  
 PT diagnostic, forensic, gene therapy and chromosome mapping procedures -  
 PS Claim 1; SEQ ID 19325; 71pp + CD-ROM; English.

XX The present sequence is one of a large number of 5' ESTs derived from  
 CC mRNAs encoding secreted proteins. No ORF has yet been conclusively  
 CC identified within the present sequence. The 5' ESTs were prepared from  
 CC total human RNAs or polyA+ RNAs derived from 30 different tissues. EST  
 CC sequences usually correspond mainly to the 3' untranslated region (UTR)  
 CC of the mRNA because they are often obtained from oligo-dT primed cDNA  
 CC libraries. Such ESTs are not well suited for isolating cDNA sequences  
 CC derived from the 5' ends of mRNAs and even in those cases where longer  
 CC cDNA sequences have been obtained, the full 5' UTR is rarely included.  
 CC 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be  
 CC used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used  
 CC in diagnostic, forensic, gene therapy and chromosome mapping procedures;  
 CC they are used to obtain upstream regulatory sequences and to design  
 CC expression and secretion vectors.

XX Sequence 227 BP; 50 A; 53 C; 67 G; 53 T; 4 other;

Query Match 100.0%; Score 12; DB 21; Length 227;

Best Local Similarity 100.0%; Pred. No. 2e+03; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCCTCTGGGAG 12  
 Db 169 GCCTCTGGGAG 158

RESULT 14

AAS30782  
 ID AAS30782 standard; cDNA; 234 BP.

AC AAS30782;

DT 04-DEC-2001 (first entry)

DE Human cDNA encoding G protein-coupled receptor nGPR-83.

KM Human; G protein-coupled receptor; nGPR-x; ss; antiviral; analgesic;  
 KM cytostatic; cardiac; antidiabetic; anorectic; hypotensive; hypertensive;  
 KM antiparkinsonian; nootropic; neuroprotective; antidepressant;  
 KM viral infection; HIV-1; human immunodeficiency virus; HIV-2; pain;  
 KM cancer; metabolic disease; cardiovascular disease; type 2 diabetes;  
 KM obesity; anorexia; hypotension; hypertension; myocardial infarction;  
 KM atherosclerosis; Parkinson's disease; psychosis; neurological disorder;  
 KM schizophrenia; migraine; major depression; anxiety; mental disorder;  
 KM manic depression; dyskinesia; Huntington's disease; Tourette's Syndrome.

OS Homo sapiens.

PN M0200166750-A2.

PD 13-SEP-2001.

PF 08-MAR-2001; 2001MO-US07322.

PR 08-MAR-2000; 2000US-0187581.

PR 08-MAR-2000; 2000US-0187582.

PR 08-MAR-2000; 2000US-0187714.

PR 08-MAR-2000; 2000US-0187715.

PR 08-MAR-2000; 2000US-0187825.

PR 08-MAR-2000; 2000US-0187828.

PR 08-MAR-2000; 2000US-0187829.

PR 08-MAR-2000; 2000US-0187830.

PR 08-MAR-2000; 2000US-0187833.

PR 08-MAR-2000; 2000US-0187874.

PR 08-MAR-2000; 2000US-0187930.

PR 08-MAR-2000; 2000US-0188049.

PR 08-MAR-2000; 2000US-0189294.

PR 08-MAR-2000; 2000US-0187929.

PR 08-MAR-2000; 2000US-0187928.

PA (PHAA) PHARMACIA & UPJOHN CO.

PI Vogel G, Wood LS;

XX WPI: 2001-536778/59.

DR P-PSDB; AAU19213.

XX Isolated nucleic acid molecules encoding G protein-coupled receptors

PT termed nGPR-x, useful in the treatment and diagnosis of viral  
 PT infections, cancers and mental disorders (e.g. Parkinson's disease and  
 PT schizophrenia) -  
 PS Claim 4; Page 201; 336pp; English.

XX The invention relates to novel isolated nucleic acid molecules encoding  
 CC G protein-coupled receptors termed nGPR-x. nGPR-x polynucleotides,  
 CC polypeptides, and modulators may be used in the treatment of diseases and  
 CC conditions such as infections, such as viral infections caused by HIV-1  
 CC (human immunodeficiency virus) or HIV-2, pain, cancers, metabolic and  
 CC cardiovascular diseases and disorders (e.g., type 2 diabetes, obesity,  
 CC anorexia, hypotension, hypertension, myocardial infarction,  
 CC atherosclerosis), Parkinson's disease, and psychotic and  
 CC neurological disorders, including schizophrenia, migraine, major  
 CC depression, anxiety, mental disorder, manic depression, and

CC dyskinetias, such as Huntington's disease or Tourette's Syndrome  
CC and many other diseases and syndromes listed in the specification.  
CC ngPCR-x polynucleotides and polypeptides, as well as ngPCR-x  
CC modulators, may also be used in diagnostic assays for such diseases or  
CC conditions. The present sequence encodes a G protein-coupled  
CC receptor of the invention.  
XX  
SQ Sequence 234 BP; 56 A; 64 C; 65 G; 49 T; 0 other;  
Query Match 100.0%; Score 12; DB 22; Length 234;  
Best Local Similarity 100.0%; Pred. No. 2e+03;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 GCCTCTGGGGAG 12  
Db 100 GCCTCTGGGGAG 111  
RESULT 15  
ABN21401 standard; cDNA; 289 BP.  
AC ABN21401;  
DT 24-JUN-2002 (first entry)  
DE Human ORFX polynucleotide sequence SEQ ID NO:11279.  
XX  
XX Human; open reading frame; ORFX; gene therapy; cancer; cirrhosis;  
KM hyperproliferative disorder; psoriasis; benign tumour; haemorrhage;  
KM degenerative disorder; osteoarthritis; neurodegenerative disorder;  
KM cardiovascular disease; diabetes mellitus; systemic lupus erythematosus;  
KM hypertension; hypothyroidism; cholesterol ester storage disease;  
KM immune deficiency; immune disorder; infectious disease;  
KM autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis;  
KM myasthenia gravis; gene; ss.  
OS Homo sapiens.  
XX  
XX WO20012523-A2.  
PN 06-DEC-2001.  
PD 29-MAY-2001; 2001WO-US10836.  
XX  
XX 30-MAY-2000; 2000US-206132P.  
XX 29-AUG-2000; 2000US-228716P.  
XX (CURA-) CURAGEN CORP.  
XX  
XX Shinketsu RA, Leach MD;  
PI  
XX  
XX MPI: 2002-106308/14.  
XX P-PSDB: ABB05649.  
XX  
XX Novel human polypeptides and polynucleotides useful for diagnosing,  
PT preventing and treating cardiovascular disease, neurodegenerative,  
PT hyperproliferative disorders and autoimmune disorders  
XX  
XX Disclosure: SEQ ID 11279; 1037bp; English.  
XX  
XX The present invention describes substantially purified human proteins  
CC (referred to as open reading frame, ORFX, where X is 1-11491 (see Table 1  
CC in the specification). ABN15762 to ABN27252 encode the human ORFX  
CC proteins given in ABB00010 to ABB11500. ORFX proteins are useful for  
CC treating or preventing a pathology associated with an ORFX-associated  
CC disorder in humans, and in the manufacture of a medicament for treating a  
CC syndrome associated with ORFX-associated disorder. ORFX polynucleotide  
CC sequences can be used in gene therapy. ORFX sequences can be used in the  
CC treatment of cancer, hyperproliferative disorders, cirrhosis of liver,  
CC psoriasis, benign tumours, keloid, degenerative disorders, haemorrhage,  
CC osteoarthritis, neurodegenerative disorders, disorders related to organ  
CC transplantation, cardiovascular diseases, diabetes mellitus, systemic

CC lupus erythematosus, hypertension, hypothyroidism, cholesterol ester  
CC storage disease, various immune deficiencies and disorders, infectious  
CC diseases, autoimmune disorders such as multiple sclerosis, rheumatoid  
CC arthritis, autoimmune thyroiditis, myasthenia gravis, graft-versus-host  
CC disease and autoimmune inflammatory eye disease. ORFX proteins are also  
CC useful for treating burns, incisions, ulcers, for treating osteoporosis,  
CC bone degenerative disorders, or periodontal disease, and for gut  
CC protection or regeneration and treatment of lung or liver fibrosis,  
CC reperfusion injury in various tissues and conditions resulting from  
CC N.B. The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 289 BP; 45 A; 75 C; 117 G; 52 T; 0 other;  
Query Match 100.0%; Score 12; DB 24; Length 289;  
Best Local Similarity 100.0%; Pred. No. 2e+03;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 GCCTCTGGGGAG 12  
Db 31 GCCTCTGGGGAG 42

Search completed: June 12, 2003, 10:48:27  
Job time : 210 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using SW model

Run on: June 12, 2003, 10:39:36 ; Search time 64 Seconds  
(without alignments)  
57.502 Million cell updates/sec

Title: US-09-761-116-1

Perfect score: 12

Sequence: 1 gcctctggggag 12

Scoring table: Gapped 10.0, Gapext 1.0

Searched: 441362 seqs, 15338381 residues

1 number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Issued Patents, NA:

1: /cgn2\_6/ptodata/2/ina/5A.COMB.seq:\*  
2: /cgn2\_6/ptodata/2/ina/5B.COMB.seq:\*  
3: /cgn2\_6/ptodata/2/ina/6A.COMB.seq:\*  
4: /cgn2\_6/ptodata/2/ina/6B.COMB.seq:\*  
5: /cgn2\_6/ptodata/2/ina/PCTUS.COMB.seq:\*  
6: /cgn2\_6/ptodata/2/ina/backfillseq1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	12	100.0	12	4	US-09-243-335-1
2	12	100.0	28	4	US-09-243-335-41
3	12	100.0	28	4	US-09-243-335-46
4	12	100.0	28	4	US-09-243-335-47
5	12	100.0	28	4	US-09-243-335-48
6	12	100.0	200	4	US-09-243-335-3
7	12	100.0	1279	1	US-08-146-010A-4
8	12	100.0	1279	1	US-08-674-168-9
9	12	100.0	1363	1	US-08-776-088-21
10	12	100.0	1363	5	PCT-US95-09145A-21
11	12	100.0	1820	4	US-09-732-199A-3
12	12	100.0	1868	4	US-09-739-455-1
13	12	100.0	1875	3	US-08-878-474-4
14	12	100.0	1878	4	US-09-732-025-1
15	12	100.0	1938	4	US-08-278-635B-1
16	12	100.0	1938	3	US-08-464-258B-1
17	12	100.0	1938	3	US-08-471-961-1
18	12	100.0	2109	4	US-09-370-838-153
19	12	100.0	2263	4	US-08-487-596-5
20	12	100.0	2274	2	US-08-466-589-5
21	12	100.0	2374	2	US-08-700-636-5
22	12	100.0	2374	3	US-08-467-574-5
23	12	100.0	2374	4	US-09-217-345-5
24	12	100.0	2540	1	US-08-446-919A-1
25	12	100.0	2577	2	US-08-209-521-25
26	12	100.0	2555	4	US-08-456-200B-10
27	12	100.0	4837	4	US-09-629-616-1

C	28	12	100.0	5176	4	US-09-182-024A-1	Sequence 1, Appl
C	29	12	100.0	5434	2	US-08-841-349-1	Sequence 1, Appl
C	30	12	100.0	7032	2	US-08-149-097D-24	Sequence 24, Appl
C	31	12	100.0	7032	3	US-08-949-386-24	Sequence 24, Appl
C	32	12	100.0	7032	3	US-08-450-562-24	Sequence 24, Appl
C	33	12	100.0	7032	4	US-08-984-709A-24	Sequence 24, Appl
C	34	12	100.0	7032	4	US-08-450-272-24	Sequence 24, Appl
C	35	12	100.0	7089	3	US-08-949-386-25	Sequence 25, Appl
C	36	12	100.0	7089	3	US-08-450-562-25	Sequence 25, Appl
C	37	12	100.0	7089	4	US-08-984-709A-25	Sequence 25, Appl
C	38	12	100.0	7089	4	US-08-450-272-25	Sequence 25, Appl
C	39	12	100.0	8285	4	US-09-732-025-3	Sequence 3, Appl
C	40	12	100.0	8310	3	US-08-870-126-11	Sequence 11, Appl
C	41	12	100.0	8310	4	US-09-445-247-11	Sequence 11, Appl
C	42	12	100.0	11827	4	US-09-739-455-3	Sequence 3, Appl
C	43	12	100.0	14985	1	US-08-652-972A-6	Sequence 6, Appl
C	44	12	100.0	14985	5	PCT-US96-06231A-6	Sequence 6, Appl
C	45	12	100.0	16389	4	US-09-741-154-3	Sequence 3, Appl

#### ALIGNMENTS

RESULT 1  
US-09-243-335-1  
Sequence 1, Application US/09243335A  
Patent No. 6197580  
GENERAL INFORMATION:  
APPLICANT: American Home Products Corp.  
APPLICANT: Sausalic, Vedrana S.  
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION OF THE HUMAN  
FILE REFERENCE: 0630/0E791  
CURRENT APPLICATION NUMBER: US/09/243.335A  
CURRENT FILING DATE: 1999-02-01  
NUMBER OF SEQ ID NOS: 49  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 1  
LENGTH: 12  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Oligonucleotide  
US-09-243-335-1

Query Match 100.0%; Score 12; DB 4; Length 12;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTCTGGGAG 12  
DB 1 GCCTCTGGGAG 12

RESULT 2  
US-09-243-335-41  
Sequence 41, Application US/09243335A  
Patent No. 6197580  
GENERAL INFORMATION:  
APPLICANT: American Home Products Corp.  
APPLICANT: Sausalic, Vedrana S.  
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION OF THE HUMAN  
FILE REFERENCE: 0630/0E791  
CURRENT APPLICATION NUMBER: US/09/243.335A  
NUMBER OF SEQ ID NOS: 49  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 41  
LENGTH: 28  
TYPE: DNA

ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Oligonucleotide  
US-09-243-335-41

Query Match 100.0%; Score 12; DB 4; Length 28;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGAG 12  
DB 6 GCCTCTGGGAG 17

RESULT 3  
US-09-243-335-46  
Sequence 46, Application US/09243335A  
Patent No. 6197580  
GENERAL INFORMATION:  
APPLICANT: American Home Products Corp.  
APPLICANT: Susulic, Vedrana S.  
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION OF THE HUMAN  
FILE REFERENCE: 0630/0E791  
CURRENT APPLICATION NUMBER: US/09/243,335A  
CURRENT FILING DATE: 1999-02-01  
NUMBER OF SEQ ID NOS: 49  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 46  
LENGTH: 28  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Oligonucleotide  
US-09-243-335-46

Query Match 100.0%; Score 12; DB 4; Length 28;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGAG 12  
DB 6 GCCTCTGGGAG 17

RESULT 4  
US-09-243-335-47  
Sequence 47, Application US/09243335A  
Patent No. 6197580  
GENERAL INFORMATION:  
APPLICANT: American Home Products Corp.  
APPLICANT: Susulic, Vedrana S.  
APPLICANT: Duzic, Edmir  
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION OF THE HUMAN  
FILE REFERENCE: 0630/0E791  
CURRENT APPLICATION NUMBER: US/09/243,335A  
CURRENT FILING DATE: 1999-02-01  
NUMBER OF SEQ ID NOS: 49  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 47  
LENGTH: 28  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Oligonucleotide  
US-09-243-335-47

Query Match 100.0%; Score 12; DB 4; Length 28;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGAG 12  
DB 6 GCCTCTGGGAG 17

RESULT 5  
US-09-243-335-48  
Sequence 48, Application US/09243335A  
Patent No. 6197580  
GENERAL INFORMATION:  
APPLICANT: American Home Products Corp.  
APPLICANT: Susulic, Vedrana S.  
APPLICANT: Duzic, Edmir  
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION OF THE HUMAN  
FILE REFERENCE: 0630/0E791  
CURRENT APPLICATION NUMBER: US/09/243,335A  
CURRENT FILING DATE: 1999-02-01  
NUMBER OF SEQ ID NOS: 49  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 48  
LENGTH: 28  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Oligonucleotide  
US-09-243-335-48

Query Match 100.0%; Score 12; DB 4; Length 28;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGAG 12  
DB 6 GCCTCTGGGAG 17

RESULT 6  
US-09-243-335-3  
Sequence 3, Application US/09243335A  
Patent No. 6197580  
GENERAL INFORMATION:  
APPLICANT: American Home Products Corp.  
APPLICANT: Susulic, Vedrana S.  
APPLICANT: Duzic, Edmir  
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION OF THE HUMAN  
FILE REFERENCE: 0630/0E791  
CURRENT APPLICATION NUMBER: US/09/243,335A  
CURRENT FILING DATE: 1999-02-01  
NUMBER OF SEQ ID NOS: 49  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 3  
LENGTH: 200  
TYPE: DNA  
ORGANISM: Homo sapien  
FEATURE:  
US-09-243-335-3

Query Match 100.0%; Score 12; DB 4; Length 200;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGAG 12  
DB 61 GCCTCTGGGAG 72

RESULT 7  
US-08-146-010A-4/c  
Sequence 4, Application US/08146010A  
Patent No. 5591577  
GENERAL INFORMATION:

APPLICANT: TSUCHIYA, MAKOTO  
APPLICANT: MORIYA, MIKO  
APPLICANT: MIWA, KIYOSHI  
TITLE OF INVENTION: MOBILE GENETIC ELEMENT ORIGINATED FROM  
TITLE OF INVENTION: BREVIBACTERIUM STRAIN  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT  
STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, FOURTH FLOOR  
CITY: ARLINGTON  
STATE: VIRGINIA  
COUNTRY: USA  
ZIP: 22202  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/146,010A  
FILING DATE: 12-NOV-1993  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 52694/92  
FILING DATE: 11-MAR-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: OBLON, NORMAN F.  
REGISTRATION NUMBER: 24,618  
REFERENCE/DOCKET NUMBER: 10-649-0  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 413-3000  
TELEFAX: (703) 413-2220  
TELEX: 248855 OPAT UR  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1279 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
ORIGINAL SOURCE:  
ORGANISM: Brevibacterium lactofermentum  
STRAIN: AJ2256  
FEATURE:  
NAME/KEY: insertion\_seq  
LOCATION: 1..1279  
US-08-146-010A-4  
Query Match 100.0%; Score 12; DB 1; Length 1279;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 GCCTCTGGGGAG 12  
DB 136 GCCTCTGGGGAG 125

RESULT 8  
US-08-674-168-9/c  
Sequence 9, Application US/08674168  
Patent No. 5804414  
GENERAL INFORMATION:  
APPLICANT: MORIYA, Miko  
APPLICANT: MATSUI, Hiroshi  
APPLICANT: YOKOZAKI, Kenzo  
APPLICANT: HIRANO, Seiko  
APPLICANT: HAYAKAWA, Aetsushi  
APPLICANT: IZUI, Masako  
APPLICANT: SUGIMOTO, Masakazu  
TITLE OF INVENTION: METHOD OF AMPLIFYING GENE USING  
TITLE OF INVENTION: ARTIFICIAL TRANSPOSON  
NUMBER OF SEQUENCES: 32  
CORRESPONDENCE ADDRESS:

ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,  
ADDRESSEE: P.C.  
STREET: 1755 JEFFERSON DAVIS HIGHWAY, SUITE # 400  
CITY: ARLINGTON  
STATE: VIRGINIA  
COUNTRY: USA  
ZIP: 22202  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/674,168  
FILING DATE: 01-JUL-1996  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 7-166541  
FILING DATE: 30-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: OBLON, NORMAN F.  
REGISTRATION NUMBER: 24,618  
REFERENCE/DOCKET NUMBER: 10-810-0  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 413-3000  
TELEFAX: (703) 413-2220  
TELEX: 248855 OPAT UR  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1279 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHEICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
ORGANISM: Brevibacterium lactofermentum  
STRAIN: AJ12036  
FEATURE:  
NAME/KEY: repeat\_region  
LOCATION: 1..114  
NAME/KEY: repeat\_region  
LOCATION: 1266..1279  
US-08-674-168-9  
Query Match 100.0%; Score 12; DB 1; Length 1279;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 GCCTCTGGGGAG 12  
DB 136 GCCTCTGGGGAG 125

RESULT 9  
US-08-776-088-21/c  
Sequence 21, Application US/08776088  
Patent No. 5773579  
GENERAL INFORMATION:  
APPLICANT: Torczynski, Richard M.  
APPLICANT: BOLLON, Arthur P.  
TITLE OF INVENTION: Lung Cancer Marker  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SIDLEY & AUSTIN  
STREET: 1201 Elm Street, Suite 4500  
CITY: Dallas  
STATE: TX  
COUNTRY: US  
ZIP: 75270-2197  
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/776.088  
FILING DATE: 19-JUL-95  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Eugenia S. Hansen  
REGISTRATION NUMBER: 31,966  
REFERENCE/DOCKET NUMBER: 10365/05011  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 214-981-3300  
TELEFAX: 214-981-3400  
INFORMATION FOR SEQ ID NO: 21:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1363 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-776-088-21

Query Match 100.0%; Score 12; DB 1; Length 1363;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGAG 12  
|||  
Db 183 GCCTCTGGGAG 172

RESULT 10  
PCT-US95-09145A-21/c  
Sequence 21, Application PC/TUS9509145A  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: Lung Cancer Marker  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEES: RICHARDS, MEDLOCK & ANDREWS  
STREET: 1201 Elm Street, Suite 4500  
CITY: Dallas  
STATE: TX  
COUNTRY: US  
ZIP: 75270-2197  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/09145A  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: John A. Haire  
REGISTRATION NUMBER: 37,345  
REFERENCE/DOCKET NUMBER: 835792CIPCT  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 214-939-4500  
TELEFAX: 214-939-4600  
INFORMATION FOR SEQ ID NO: 21:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1363 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
PCT-US95-09145A-21

Query Match 100.0%; Score 12; DB 5; Length 1363;

Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGAG 12  
|||  
Db 183 GCCTCTGGGAG 172

RESULT 11  
US-09-732-199A-3/c  
Sequence 3, Application US/09732199A  
Patent No. 6379960  
GENERAL INFORMATION:  
APPLICANT: Ian Popoff  
TITLE OF INVENTION: ANTISENSE MODULATION OF DAMAGE-SPECIFIC DNA BINDING PROTEIN 2, P4  
FILE REFERENCE: RTS-0214  
CURRENT APPLICATION NUMBER: US/09/732.199A  
CURRENT FILING DATE: 2000-12-06  
NUMBER OF SEQ ID NOS: 57  
SEQ ID NO 3  
LENGTH: 1820  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (176)...(1459)  
US-09-732-199A-3

Query Match 100.0%; Score 12; DB 4; Length 1820;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGAG 12  
|||  
Db 113 GCCTCTGGGAG 102

RESULT 12  
US-09-739-455-1/c  
Sequence 1, Application US/09739455  
Patent No. 6413756  
GENERAL INFORMATION:  
APPLICANT: YAN, Chunhua et al  
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
FILE REFERENCE: CLO00653  
CURRENT APPLICATION NUMBER: US/09/739.455  
CURRENT FILING DATE: 2000-12-19  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 1  
LENGTH: 1868  
TYPE: DNA  
ORGANISM: Human  
US-09-739-455-1

Query Match 100.0%; Score 12; DB 4; Length 1868;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGAG 12  
|||  
Db 794 GCCTCTGGGAG 783

RESULT 13  
US-08-878-474-4/c  
Sequence 4, Application US/08878474  
Patent No. 6133232  
GENERAL INFORMATION:

APPLICANT: De Robertis, Edward M.  
APPLICANT: Boumeester, Tewis  
TITLE OF INVENTION: Endoderm, Cardiac and Neural Inducing  
TITLE OF INVENTION: Factors  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Majestic, Parsons, Siebert & Haue  
STREET: Four Embarcadero Center, Suite 1100  
CITY: San Francisco  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 94111-4106  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/878,474  
FILING DATE: 18-JUN-1997  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/020,150  
FILING DATE: 20-JUN-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Siebert, J. Suzanne  
REGISTRATION NUMBER: 28,758  
REFERENCE/DOCKET NUMBER: 3100.002US1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415/248-5500  
TELEFAX: 415/362-5418  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1875 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: CDNA  
US-08-878-474-4

Query Match 100.0%; Score 12; DB 3; Length 1875;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTCTGGGAG 12  
Db 769 GCCTCTGGGAG 758

RESULT 14  
US-09-732-025-1/c  
Sequence 1, Application US/09732025  
Patent No. 6416990  
GENERAL INFORMATION:  
APPLICANT: Wei, Ming-Hui et al  
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
FILE REFERENCE: C1001011  
CURRENT APPLICATION NUMBER: US/09/732,025  
CURRENT FILING DATE: 2000-12-07  
NUMBER OF SEQ ID NOS: 4  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 1  
LENGTH: 1878  
TYPE: DNA  
ORGANISM: Human  
US-09-732-025-1

Query Match 100.0%; Score 12; DB 4; Length 1878;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTCTGGGAG 12  
Db 808 GCCTCTGGGAG 797

RESULT 15  
US-08-278-635B-1  
Sequence 1, Application US/08278635B  
Patent No. 5683912  
GENERAL INFORMATION:  
APPLICANT: ELGOYHEN, ANA BELEN  
APPLICANT: JOHNSON, DAVID S.  
APPLICANT: BOULTER, JAMES R.  
APPLICANT: HEINEMANN, STEPHEN F.  
TITLE OF INVENTION: CLONING AND EXPRESSION OF A NOVEL  
TITLE OF INVENTION: ACETYLCHOLINE-GATED ION CHANNEL RECEPTOR  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GRAY CARY WARE & FREIDENRICH  
STREET: 4365 EXECUTIVE DRIVE, SUITE 1600  
CITY: SAN DIEGO  
STATE: CALIFORNIA  
COUNTRY: USA  
ZIP: 92121  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/278,635B  
FILING DATE: 21-JUL-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: REITER, STEPHEN E.  
REGISTRATION NUMBER: 31,192  
REFERENCE/DOCKET NUMBER: P41 9771  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619-677-1409  
TELEFAX: 619-677-1465  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1938 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: unknown  
MOLECULE TYPE: CDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
IMMEDIATE SOURCE:  
CLONE: ALPHA 9  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 89..1525  
US-08-278-635B-1

Query Match 100.0%; Score 12; DB 1; Length 1938;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTCTGGGAG 12  
Db 878 GCCTCTGGGAG 889

Search completed: June 12, 2003, 11:30:37  
Job time : 65 secs

